

YESUDEEP JOSE MANGALAPILLY

Engineering Manager · Open-source Contributor · Systems Programmer

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◆ Summary

Engineering manager with 20 years of industry experience including 14+ years embedded in Google's engineering organization through GlobalLogic (a long-term engineering partner) currently running five parallel engineering teams (25 engineers today, scaling toward 45) across the US, Poland, Mexico, Argentina, Canada, and India in designing, architecting, and programming Web applications and system software.

Original author of [Watchdog](#), a cross-platform filesystem-monitoring library for Python that today sees 106M+ monthly downloads (PyPI) and 7,300+ GitHub stars under community stewardship. Watchdog is a direct dependency of major projects including Streamlit, Apache Superset, Apple's FoundationDB, the AWS SAM CLI, and Hugging Face's dataset tooling, and is packaged in every major Linux distribution.

Founded and hired the 13-engineer team (Poland, Mexico, US, India) that built Google's [Firebase Genkit](#) (open-source Gen AI SDK) and [Dotprompt](#), serving as architect until rolling off in March 2026. Contributor to [googletest](#), the [Bazel](#) build-system ecosystem, [cctz](#), [double-conversion](#), Google Closure Library, and many other open-source projects.

Progressive leadership growth from Software Engineer to Senior Manager over a 20-year career including 14+ years on long-term assignment to Google through GlobalLogic managing teams of up to 30 engineers across six countries.

◆ Skills

Leadership	Engineering management (4 parallel teams, scaling past 40 reports), team leadership and mentoring, performance reviews, hiring and onboarding, strategic planning, client and stakeholder management, cross-geography coordination (US, India, Poland, Mexico, Argentina, Canada).
Business Development	Sales pitches and discovery calls, contract drafting, client meet-and-greets, partner engagement, account growth alongside go-to-market teams, P&L ownership.
Project Management	Multi-project portfolio delivery, execution and delivery, resource allocation, technical training, budget management.
Programming Domains	Python, JavaScript / TypeScript, Go, Rust, Java, C++.
Tools	Open-source ecosystem infrastructure, AI/ML tooling (Gen AI SDKs), Web application security (CSP Level 3, Trusted Types), build systems (Bazel), cross-platform systems programming, ecommerce.
Operating Systems	git, GNU Emacs, Vim / Helix, Bazel.
Languages	macOS, GNU / Linux, FreeBSD.
	English (fluent), Hindi, Marathi, Konkani, Gujarati (passing).

◆ Interests

Setting project and team direction, systems-thinking, and driving operational efficiency and revenue growth. I enjoy driving team productivity, mentoring teams, unblocking people, analyzing businesses, finance, build systems, playing tennis, writing, photography, languages, design, riding, and running. Previous technical experience includes functional programming, algorithms, tooling, concurrency, file-notification systems, Web servers, and Web optimization.

◆ Education

2005 Bachelor of Computer Science, [University of Mumbai](#), India.

◆ Professional Experience

Senior Manager, Engineering · *GlobalLogic Inc. (US), on long-term assignment to Google* August 2024 – Present
San Jose, CA

- Led 5 parallel engineering teams across 6 countries – 20+ engineers today, scaling toward 45 as the Google Search org team ramps up.
- Executed a portfolio of projects worth over USD 3.4M in annual revenue.
- Supervised principal engineers across these teams; mentored 2 senior engineers on the path to engineering-management roles.
- Led recruitment and onboarding of 20 engineers across the US, Poland, India, Mexico, and Argentina for teams inside the Google Search organization (April 2024 – present).
- Built the 9-person gRPC engineering team from scratch (early 2025 – present); hired across geographies and currently manage delivery on Google's open-source RPC framework.
- Established a 3-person Firebase Realtime Database team plus 4 engineers contributing to adjacent Firebase platform projects (since 2024); hired and onboarded the founding engineers and delivered on Firebase RTDB and related platform projects.
- Built a 7-person Looker engineering team (August 2024 – present); hired and onboarded the founding engineers and led multiple parallel projects.
- Architected [Firebase Genkit](#) and [Dotprompt](#) from the earliest commits (Jan 2025 – Mar 2026); designed Dotprompt's Python implementation (PR 22, Feb 5, 2025).
- Established the 13-person Genkit engineering team across 4 countries in Dec 2025; delivered [Python v0.5.0](#) on Feb 4, 2026 – the largest single release in the SDK's history (178 commits, 680 files changed).
- Delivered 1,097 GitHub contributions and 372 PR reviews across the 2 repos in the trailing year.
- Designed Google Fiber's Web application security as architect and hands-on engineer – CSP Level 3 and Trusted Types rollouts across customer-facing properties.
- Established business development for the practice: created sales pitches, drove discovery calls with teams across Google to win new projects, negotiated contracts, and coordinated client meet-and-greets as engineering resources onboard.
- Established end-to-end people management across all four teams: hiring, onboarding, performance reviews for 30 engineers annually, resource allocation, and career-growth conversations.
- Developed Bazel build rules for [Flutter](#) and Dart + gRPC.
- Reduced engineer onboarding from 8 weeks to 2 – 3 weeks (2 – 3x faster) across all geographies.
- Organized 20+ tech talks and trainings for over 100 engineers.
- Delivered upstream contributions to [googletest](#), [cctz](#), and [double-conversion](#).

Specialist Engineer & Technical Project Manager · *GlobalLogic Inc. (US), on long-term assignment to Google* June 2018 – July 2024

Sunnyvale / San Jose, CA

- Delivered full-stack development and team management for Google Shopping and Google Fiber.
- Coordinated 100+ interviews and delivered performance reviews for dozens of engineers.
- Led development of Google Fiber's Web application security tooling.
- Executed projects worth over USD 1M in annual revenue.
- Delivered 3 upstream contributions to the Bazel build system and its ecosystem ([rules_jvm_external](#), [rules_foreign_cc](#), and [Vim detection for BUILD files](#)).

Lead Software Engineer · *GlobalLogic Inc. (US), on long-term assignment to Google* August 2016 – May 2018

Sunnyvale, CA

- Delivered full-stack development across 3 product surfaces (revenue-metrics tool, internal search engine, ecommerce applications) covering data analysis, search ranking, and release management.

Senior Software Engineer · *GlobalLogic Inc. (US), on long-term assignment to Google* November 2015 – July 2016
Sunnyvale, CA

- Release management for tools that analyze metrics; full-stack development for a communication-review tool.

Lead, Engineering · *GlobalLogic Technologies Ltd. (India), on long-term assignment to Google* April 2014 – October 2015
Noida, India

- Led, mentored, and trained a team of 8 – 9 developers across projects in order-tracking, client-side Web frameworks, news bulletins, a documentation-collation app, and a customer-satisfaction metrics tool.

Associate Lead, Engineering · *GlobalLogic Technologies Ltd. (India), on long-term assignment to Google* June 2013 – March 2014
Noida, India

- Mentored and trained teams, conducted interviews, led front-end development on several projects, authored a Web framework and a customer-satisfaction metrics tool.

Software Development Engineer · *GlobalLogic Technologies Ltd. (India), on long-term assignment to Google* February 2012 – May 2013
Noida, India

- Built a customer-satisfaction metrics tool; achieved JavaScript Readability at Google; trained juniors on Git and Emacs.

Open source (sabbatical) · *Self-directed* October 2010 – February 2012

- Built **Watchdog** – open-source file-monitoring library for Python and several other libraries.

Founder & Owner · *HappyChickoo Design Studio (now defunct)* October 2007 – November 2010
Mumbai, India

- Created print and online media for advertisers and labour institutions; produced icon graphics, commercial photography, and Website design for clients including Greatship India Ltd., Nitaai Gauras' Art Gallery, and the Maharashtra Institute of Labour Studies (MILS).

Software Engineer · *Arion Systems Pvt. Ltd.* May 2006 – April 2007
Mumbai, India

- Built financial-reporting terminals for ICAP India and cash-transaction reporting for Kotak Mahindra Bank; delivered optimizations for CollCraft Technologies, IIT Powai.

◆ Open-source Work

Watchdog – **Original Author** · *Cross-platform filesystem monitoring for Python* Created 2010

- Designed and built the library; today sees 106M+ downloads/month on PyPI (March 2026), 7,300+ GitHub stars, and 750+ forks under community stewardship.
- Direct dependency of Streamlit, Apache Superset, Apple's FoundationDB, the AWS SAM CLI, and Hugging Face's dataset tooling.
- Adopted across US national labs and agencies (NASA JPL, ORNL, CISA), and 1,000+ other verified projects.
- Integrated into 6 package managers (Debian, Ubuntu, Fedora, Arch, Homebrew, Conda).

- Architected native event-notification backends for Linux (inotify), macOS (FSEvents), Windows (ReadDirectoryChangesW), and FreeBSD (kqueue).

Firestore Genkit Python SDK Lead, Architect, and Founding Engineering Manager · *Google's open-source Generative AI SDK* January 2025 – March 2026

- Architected and led contributions from the earliest commits (Jan 29, 2025 onwards); designed the Python SDK.
- Established the engineering team in December 2025: hired 13 engineers across Poland, Mexico, the US, and India.
- Drove Genkit Python v0.5.0 release on Feb 4, 2026 – largest single release in the SDK's history (178 commits, 680 files changed).
- Sustained activity: 1,097 GitHub contributions across Genkit and Dotprompt in trailing year; 286 PR reviews on Genkit; 86 PR reviews on Dotprompt.

Dotprompt Original Architect and Python Bootstrap · *Google's prompt-template library for Gen AI* January 2025 – March 2026

- Bootstrapped Dotprompt's Python implementation (PR 22, Feb 5, 2025); architected prompt-as-code infrastructure – versioning, parsing, and type-safe template execution – shipping in Python, Go, TypeScript, Rust, and Java.

Other contributions: googletest (C++ testing framework), Bazel ecosystem (`rules_jvm_external`, `rules_foreign_cc`, `rules_proto`), Vim (BUILD/bazel filetype detection, applied by Bram Moolenaar as patch 8.2.1566; ported to Neovim), cctz, double-conversion, `python-rsa` (multi-core key generation, early Python 3 compatibility, 40x-faster integer-to-bytes path; credited by name in the changelog), `python-mom` (base85 encoder faster than Mercurial's; 100% test coverage), DefinitelyTyped, huggingface_hub, `webapp2` (bundled in Google App Engine), the official Go Blog, Google Closure Library, gRPC (engineering manager), Flutter and Dart + gRPC (Bazel rules). My first open-source release was `WebView XP` (2002), a Windows XP-style Explorer task pane for Windows 98/Me/2000, published under the alias "Art Sands".

◆ Awards

2024	Long-Term Incentive Plan Award (GlobalLogic) – selective award for top-performing senior leaders.
2022	Long-Term Incentive Plan Award (GlobalLogic) – selective award for top-performing senior leaders.
2016	Sales Support Award (GlobalLogic Inc.) – for contributions to business development and client engagement.
2015	Partner Excellence Award (GlobalLogic Technologies Ltd.) – for exceptional delivery on the Google partnership.
2013	Quarter 1, 2, 3 Performance Awards (GlobalLogic Technologies Ltd.).
2023	TypeScript Readability (Google Inc.) – peer-reviewed technical credential signifying expert-level proficiency in Google's TypeScript codebase.
2012	JavaScript Readability (Google Inc.) – peer-reviewed technical credential signifying expert-level proficiency.
2012	Quarter 2, 3 Performance Awards (GlobalLogic Technologies Ltd.).

◆ Publications

- **Mangalapilly, Y. J.** "Concurrency using Go" (in progress; draft available on request) – handbook of practical advice, learnings, and patterns about Go's concurrency primitives.
- **Mangalapilly, Y. J., et al.** "ASM Book" – a community wikibook on x86 assembly programming for the `Win32 ASM Community`, written under the alias "art_sands" (2003).
- **Mangalapilly, Y. J.** "Even Faster `String.prototype.trim` Implementation in JavaScript" – blog post demonstrating a 50x faster trim implementation; adopted by the RightJS framework (2009).

- **Mangalapilly, Y. J.** “*memcache.js for Google App Engine Application Front-ends*” – open-source memcached-like caching for asynchronous HTTP requests (2009).

◆ Earliest Credit

1992 Child singer on **Vikas Colourful Rhymes** (Vikas Educational Cassette Series), Vikas Prakashan, Bombay
– the earliest thing I shipped to an audience.

◆ Testimonials

“I asked Malte Ubl to review your code, because you were using different paradigms here (for the sake of compatibility). Malte is a JavaScript expert so I wanted to get his opinion. He was very impressed by the code! Well done!”

– Dr. Jens Trapp, *Staff Technical Solution Engineer, Google (Germany)*

“I’m very impressed with the framework. There is some great code in there. You’ve built quite a well-tested framework in a month! I suggest sending it to the Google Closure team.”

– Matthew Dingley, *Web Solutions Engineer, Google (UK)*

“7 Python libraries you should know about (pyquery, dateutil, fuzzywuzzy, watchdog, sh, pattern, path.py).”

– Lars Yencken, *Twitter (@larsyencken)*

“Big, big credits to Yesudeep Mangalapilly for all the changes – added ability to generate keys on multiple cores simultaneously (massive speedup) and partial Python 3 compatibility.”

– Sybren A. Stavele, *python-rsa CHANGELOG, v3.1*

“The faster trim method in rightjs-plugins is based on the work of Yesudeep Mangalapilly.”

– Nikolay Nemshilov, *rightjs-plugins source*

“Yesudeep J. Mangalapilly offered me a Christmas present. He sent me a patch that corrected some misspellings, improved status messages, and added a feature to create links to .hlp and .chm files within the Windows Start Menu.”

– GNUWin32 project page, *December 25, 2005*

“From the day he joined, Yesudeep is a consistent performer and shows good attitude towards work. He always strives to learn new technologies.”

– Giridhar Patarlagadda, *Web Solutions Engineer, Google*

“Yesudeep has great technical skills and is ready to work on the latest technologies. He shares his knowledge with the team and is ready to help or train them whenever required.”

– Giridhar Patarlagadda, *Web Solutions Engineer, Google*