

MURALI KULACHANDRAN

STAFF SOFTWARE ENGINEER | FINTECH CTO | SCALABLE SYSTEMS EXPERT

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Summary

- Staff-level engineer with 10+ years of experience designing resilient, scalable systems. Thrives in full-stack environments and loves to write a good unit test. Enjoys building with TypeScript and RSpec almost as much as optimizing VO₂ max.

★ Founder Experience

2025
|
2024

CTO & Co-Founder

Prof of Wall Street

📍 Remote

- Built a first-of-its-kind fintech platform that applies behavioral finance principles to real-world trading data. Delivered personalized, data-driven insights that help active investors understand and improve their decision-making.
- Served as the technical lead in presenting the platform to external evaluators, successfully addressing scaling and security requirements. The platform's engineering strength and analytical rigor led to acceptance into top-tier incubators including Creative Destruction Lab and Curinos Fintech Incubator.
- Architected and built a Dockerized Python backend featuring a modular analytics engine, delivering a REST API for behavioral analytics capable of handling complex user portfolios. Key strengths include low-latency processing, over 95% test coverage, and a developer-friendly design.
- Developed a responsive React and TypeScript frontend delivering behavioral insights and a guided investment workflow. Insights helped users uncover over \$100K in potential investing upsides, while the workflow improved performance by over 200%, based on a study with the University of Cincinnati.
- Deployed containerized services on DigitalOcean using Docker to ensure scalable, consistent performance across development and production. Built robust CI/CD pipelines with GitHub Actions and integrated New Relic for monitoring and alerts. The automation enabled rapid developer onboarding, reducing time-to-first-commit from over a week to under two days, with engineers deploying to production and confidently using observability tools to ensure safe, reliable releases.
- Recruited and led a high-performing engineering team with a strong focus on mentorship through code reviews, technical discussions, pairing sessions, regular one-on-ones, and structured annual performance planning.

📁 Professional Experiences

2025
|
2021

Senior Software Engineer

Getty Images

📍 Remote

- App lead for the contributor submission platform, which processes over 99% of all contributor image uploads via a high-throughput Ruby on Rails backend and a React + TypeScript frontend. Personally led architecture and implementation of frontend systems used by thousands of global contributors and internal reviewers.
- Spearheaded the design and implementation of an AI-content tagging system in the Rails backend to detect and flag AI-generated and AI-modified images across hundreds of thousands of daily submissions. The company was then able to launch its own AI image generation product, unlocking a new multi-million dollar revenue stream.
- Improved initial page load time by 50% through targeted frontend performance audits using PageSpeed Insights. Refactored the app's bootstrap sequence, deferred non-critical API calls, and restructured the data-fetching layer to prioritize render-critical content.
- Took initiative to unblock and complete a stalled migration from react-scripts to Vite, improving local development performance and boosting developer throughput by ~5%.
- Took sole ownership of diagnosing and resolving a platform-wide Elasticsearch failure that halted all content intake, threatening millions in lost assets. While others were unable to identify the issue, was able to use internal observability tools to isolate the root cause and leveraged our in-house AI system to generate and execute recovery commands, restoring functionality under intense time pressure.
- Led the redesign of the team's hiring process, overhauling the interview structure and creating candidate and interviewer guides. Resulting in the successful hiring of several top-performing engineers and improved overall consistency across interviews.

2021
|
2017

Senior Software Engineer

📍 Toronto, ON

Travel Edge

- Technical lead on the rebuild of kensingtontours.com, migrating from a legacy .NET MVC to a modern Angular v4 SPA architecture. Introduced Redux for global state management to persist user-selected tours across pages—boosting conversion rates and increasing lead generation by ~5%.
- Collaborated with the VP of Marketing to ensure 99% uptime of lead generation forms, implement SEO best practices, and integrate third-party analytics and marketing platforms. Co-led a Google-hosted hackathon in NYC where the team placed 2nd by implementing Accelerated Mobile Pages (AMP), improving mobile performance and engagement.
- Refactored the legacy PDF generation system, which was previously brittle and difficult to maintain. Introduced modular design, unit testing, and separation of concerns—transforming it into a maintainable codebase that the full team could contribute to. Post-refactor, contribution expanded from 1 developer to 10+.
- Led the migration from a single-server deployment to a multi-server, load-balanced production environment, enabling blue/green deployments and eliminating downtime. Improved system reliability dramatically—reducing daily outages and raising uptime to nearly 99%.
- Provided mentorship to junior developers during the tech stack transition. Conducted code reviews, enforced best practices in Node and Angular, and helped level up team capabilities through architectural guidance and paired debugging.

2015
|
2016

Software Engineer

📍 Toronto, ON

Ingram Micro Cloud

- Sole engineer responsible for maintaining and enhancing the internal Report Generator and Cost of Goods application, used to support pricing operations and financial reporting. Implemented new features, stabilized legacy code, and significantly improved test unit coverage.
- Modernized core components of the application using KnockoutJS, ASP.NET WebAPI, and Unity for dependency injection, resulting in improved maintainability and faster development velocity for new features.
- Contributed to the development and support of the Cloud Marketplace, a SaaS platform enabling third-party vendors to distribute and sell cloud software. Built internal tools to support the platform team in configuring and managing listings and pricing models.
- Frequently appointed Deployment Lead, responsible for coordinating release activities, managing developer checklists, auditing task completion, and communicating deployment timelines to stakeholders.
- Acted as stand-in for the development manager during weekly departmental meetings and standups—facilitating sprint updates, aligning team progress, and ensuring communication across engineering and product teams.

2015
|
2009

Previous Experiences

- Gained full-stack development experience across agencies, non-profits, and large-scale organizations using .NET, PHP, and JavaScript. Full professional history available upon request.



Technical Skills

- Languages & Frameworks: TypeScript / JavaScript, React, Python, Flask, Ruby on Rails, C#/.NET Core, Angular, Node.js,
- DevOps: Docker, Kubernetes, GitHub Actions, GitLab Pipelines, AWS, Terraform, Splunk, New Relic



Awards & Personal Projects

- *Getty 2024 Recognition Award*: Selected to represent the team at the 2024 Grammy Awards in recognition of driving front-end tooling improvements and cultivating a company-wide email initiative that highlighted the team's accomplishments.
- *Travel Edge 2018 IT Top Performer Award*: Recognized for driving measurable impact in collaboration with Marketing
- Developed a variety of full-stack side projects, including a multiplayer Jeopardy bot used at company events (React, Node.js, SSE) and a D3-based stand-up visualization tool adopted by internal teams. Projects spanned PWAs, geolocation apps, and time-management tools, showcasing end-to-end ownership from UI to infrastructure.



Education

2009
|
2004

Bachelor of Software Engineering

University of Waterloo