Michael Gavidia

Sr. Software Engineer

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TECHNICAL COMPETENCIES

- **Languages:** Python, JavaScript, TypeScript, Node.js, Tailwindcss, HTML
- **Databases:** PostgreSQL, MongoDB, MySQL, Elasticsearch, Supabase
- **Frameworks:** React, FastAPI, Django, Next.js, Vue
- **CI and Infrastructure:** Docker, Kubernetes, Railway, GitHub Actions, Jenkins, AWS, Google Cloud Platform (GCP) Browserstack, Sauce Labs
- **Testing & Documentation:** Postman, Selenium, pytest, Playwright, Cucumber.js, Storybook, Mocha, Confluence, Jira, Figma
- **AI & Development Tools:** OpenAI APIs, GitHub Copilot, Cursor, Claude, Gemini
- **Practices:** REST APIs, Microservices, Test-Driven Development (TDD), Behavior-Driven Development (BDD), Agile, Regression Testing, AI-assisted development workflows

PROFESSIONAL EXPERIENCE

Senior Software Engineer (Contract)
Nov 2024 - Present
2BeLive - Los Angeles, CA

- Engineered serverless AI-powered course generation platform converting PDF documents into structured online courses using OpenAI and Google Gemini APIs with Node.js on AWS Lambda. (Node.js, AWS Lambda, OpenAI API, Google Gemini API)
- Designed and implemented custom JSON schema specifications defining course structure (title, modules, content blocks) to ensure consistent LLM output for database storage. (JSON Schema, API Design)
- Built asynchronous processing pipeline using DynamoDB Streams for background job queue, handling PDF-to-course conversions with processing times under 2 minutes. (DynamoDB Streams, AWS Lambda, Asynchronous Processing)
- Developed adaptive prompt engineering strategies to handle diverse PDF layouts including multi-column formats, tables, and charts, generating HTML-formatted course modules. (Prompt Engineering, LLM Integration)
- Implemented S3 integration for PDF document storage and retrieval within serverless architecture using DynamoDB for course metadata and content persistence. (AWS S3, DynamoDB, Serverless Architecture)
- Extended existing Vue.js frontend to support PDF upload functionality with real-time processing status updates and course generation tracking. (Vue.js, Frontend Development)

Senior Software Engineer
Oct 2018 - Jul 2024
World of Good Brands - Santa Monica, CA

- Collaborated in technical planning sessions with cross-functional teams to scope features, break down complex projects into iterative sprint deliverables, and establish engineering priorities. (Agile, Technical Leadership, Sprint Planning, Cross-functional Collaboration, Stakeholder Management)
- Built internal component library and testing framework enabling consistent development across company brand websites. (Next.js, React, TypeScript, Tailwind CSS, Cucumber.js)
- Architected internal monitoring platform providing engineering teams visibility into platform health, automated tests, and SEO performance. (VueJS, Nuxt.js, Jenkins, Slack, MongoDB)
- Developed RESTful API endpoints using Django and PostgreSQL, integrating third-party services into the workflow and implementing payment processing with verification for user onboarding. (Python, Django, PostgreSQL)
- Engineered data migration pipeline to convert legacy WordPress content into modern WordPress Gutenberg blocks and import the data into a new multisite instance. (TypeScript, WordPress-CLI, MySQL, Microservices, Node.js, RabbitMQ)
- Created content analyzer extracting and cataloging links for SEO performance insights and internal automated screenshot service enabling product and design teams to archive historical page states. (Microservices, Node.js, MongoDB, RabbitMQ, React, Python, Django)
- Participated in code reviews, and knowledge sharing with teammates mentoring junior developers on uphold engineering best practices. (Mentoring, Collaboration, Teamwork, Planning, Learning Development)

Software Development Engineer in Test
Age of Learning - Glendale, CA

Mar 2016 - Oct 2018

- Built Python automation framework with Selenium WebDriver and pytest for enhanced testing workflows. (Python, Selenium, pytest)
- Created React dashboard centralizing test results and pass/fail metrics, enabling faster issue identification for QA and engineering teams. (React, JavaScript)
- Collaborated with various teams across the organization aligned with user and business goals to improve testing efficiency, and increase the velocity of releases. (Release Management, Test Reporting)
- Contributed to ongoing improvements in system performance, observability, and CI/CD workflows.

Technical Project Manager
Age of Learning - Glendale, CA

Aug 2014 - Mar 2016

- Led cross-functional project coordination including stakeholder meetings, daily standups, and department alignment to ensure seamless product delivery.
- Coordinated international product launch and managed 120+ quarterly releases across North America, China, and Japan markets, successfully localizing 3000+ activities with zero missed deadlines.
- Spearheaded bug fix initiatives reducing Developer queue by 50% and eliminating QA backlog entirely.
- Mentored team members for advancement to Production Team roles while collaborating on technical documentation and requirements gathering.

Technical Project Coordinator
DIGITAL Hearts USA Inc. - Torrance, CA

Sept 2012 - Aug 2014

- Led cross-functional quality assurance program across console and mobile gaming products, coordinating testing workflows between in-house development teams and external vendor partners. (Console, Mobile, QA Program Management)
- Managed multi-party communication channels and established standardized documentation processes across internal and 3rd party stakeholders for seamless project delivery. (Stakeholder Management, Documentation)
- Implemented comprehensive issue tracking systems that reduced resolution time by 30% and improved cross-team visibility for QA defects and project milestones. (Issue Tracking, Process Improvement)
- Coordinated testing schedules and quality gates across multiple gaming platforms, ensuring compliance with platform certification requirements. (QA Coordination, Platform Certification)
- Mentored team members on QA best practices while maintaining program transparency through detailed reporting and metrics tracking across all partner organizations. (Team Leadership, QA Metrics)

PROJECTS

Melo - melo.aionestop.ai
Co-Founder & Lead Engineer

- Built AI-powered content generation platform from ground up using React, TypeScript, and Tailwind CSS for optimal user experience and maintainability. (React, TypeScript, Tailwind CSS)
- Architected full-stack application with Supabase backend, implementing secure authentication supporting Google OAuth and email-based user onboarding. (Supabase, OAuth)
- Developed scalable backend API using FastAPI and PostgreSQL, implementing asynchronous content generation workflows with Supabase Queues for reliable job processing. (FastAPI, PostgreSQL, Supabase Queues)
- Built containerized microservices architecture with automated Docker builds via GitHub Actions, deploying to container registry for seamless cloud infrastructure management. (Docker, GitHub Actions, Microservices)
- Integrated S3-compatible object storage (Cloudflare R2) for efficient media asset management and content delivery optimization. (Cloudflare R2, S3)
- Established component library with Storybook documentation, ensuring consistent UI/UX patterns and accelerating development velocity. (Storybook, Component Library)
- Designed comprehensive CI/CD pipeline using GitHub Actions with automated linting, TypeScript validation, and seamless deployment to Railway Cloud infrastructure. (GitHub Actions, Railway, CI/CD)
- Led technical architecture decisions and development workflow for early-stage product preparing for market launch.

EDUCATION

University of California, Riverside
Graduated