



Francis Lewis

Expert Engineering Manager

SUMMARY

Accomplished Software Architect and Hands-on Engineering Manager with a strong history of building, leading, and mentoring cross-functional teams in designing, developing, and deploying high-scalability, secure software solutions leveraging cloud platforms, microservices architectures, CI/CD pipelines, and performance optimization strategies. Experienced in both startup environments and well-established organizations, with expertise in architecting reliable distributed systems, implementing best practices, and driving innovation while delivering quality software.

TECHNICAL SKILLS

Main Technical Skills	Go, Node.js, PHP
AI Tools & Assistants	GitHub Copilot
Programming Languages	C, Go, Java, JavaScript, PHP, Python
AI & Machine Learning	AI
.NET Platform	.NET
JavaScript Frameworks	Node.js, React
Databases & Management Systems / ORM	AWS DynamoDB, MySQL, Redis, SqlServer
Amazon Web Services	AWS Cloudformation, AWS DynamoDB, AWS Kinesis, AWS Lambda, AWS S3, AWS SQS
Other Technical Skills	Firehose Kinesis

Engineering Manager - Swipeclock | April 2020 - Present

- Integrated AI into aspects of the job board and applicant tracking process.
- Led a major modernization initiative, migrating two monolithic PHP applications to a cloud-native, scalable microservices architecture on AWS using Go, Docker, ECS, Lambda, and other AWS services. Upgraded PHP and addressed significant security vulnerabilities.

- Developed an API for 3rd party integrations, enabling faster development cycles and achieving 99.99% uptime. Resulted in approximately \$80K in annual server cost reductions.
- Implemented secure APIs with OAuth and rate-limiting and built high-performance ETL pipelines using Go and Python.
- Established DevOps best practices, including automated testing, code reviews, and CI/CD pipelines. Mentored engineers in Go and .NET development.
- Managed partner integrations with Indeed and Twilio.

Software Architect / Engineering Manager - DSCO | Feb 2018 – April 2020

- Served as a key architect for DSCO's ETL framework, building automated tools, examples, and documentation in Node.js, Go, PHP, Python, Java, and Rust.
- Optimized streaming capabilities from 300K to millions of records/minute for near real-time reporting.
- Prototyped new product features based on customer feedback and developed high-performance change data capture (CDC) pipelines.
- Streamlined AWS deployment using CloudFormation, reducing provisioning time by 80%. Provided technical guidance on AWS architecture and DevOps.

Senior Software Engineer - Indigo Slate | Nov 2016 – Feb 2018

- Architected and deployed enterprise applications on Azure, AWS and VMware cloud platforms, focusing on high availability, reliability, and performance.
- Optimized CI/CD pipelines for rapid, zero-downtime deployments.
- Automated provisioning of consistent developer environments using virtual machines and containers.
- Created voice interface applications integrated with Amazon Alexa and IBM Watson services.
- Leveraged technologies including Node.js, PHP, Java, .NET, and Docker.

Additional Experience

- Prior experience (2006 - 2016) includes roles at Getty Images, Sterling Backcheck, Stella & Dot, Synacor, Stratus Technologies, and HR Enhancement, with achievements in automation, security audits, application migration, and delivering revenue-generating features.
- Extensive contributions to the open-source community and conference speaker in the UK.

