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.