

Faraz Alam

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PROFESSIONAL SUMMARY

Full Stack Engineer with 3+ years of experience building scalable enterprise applications across multiple languages and cloud platforms. From high-performance Go microservices to React frontends, Java Spring Boot APIs to iOS apps with ML, I've delivered end-to-end solutions for Fortune 500 clients that handle millions of requests and secure sensitive data.

EDUCATION

Bachelor of Science in Computer Engineering

Virginia Tech | Blacksburg, VA | May 2020 | Dean's list

TECHNICAL SKILLS

Frontend: React, Next.js, JavaScript, TypeScript, HTML5, CSS3, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, Java, Spring Boot, Go, Kotlin

Mobile: Swift, iOS SDK

Cloud & DevOps: AWS (Lambda, S3, EC2, RDS, SNS, KMS), Serverless Framework, Jenkins, Docker, Kubernetes

Databases: PostgreSQL, MongoDB, SQLite

Testing & Tools: JUnit 5, Mockito, Postman, Cucumber, Maven, Gradle, Jira, Confluence

Certifications: AWS Solutions Architect Associate, AWS Developer Associate

RECENT PROJECTS

- **MindMesh | <https://github.com/farazalam27/mindmesh>**
 - **Tech Stack:** Python, FastAPI, PySpark, PostgreSQL, Redis, Next.js
 - Enterprise-grade microservices-based platform with 4 independent services for distributed team collaboration and decision-making.
 - Implemented ML pipeline using PySpark (K-means clustering, LDA topic modeling, Random Forest) for idea analytics and success prediction with <300ms latency.
 - Built real-time voting system processing 750+ votes/second with Redis caching and fraud detection.
 - Achieved 95%+ test coverage with pytest/BDD, <200ms API response times, and 99.95% uptime.
 - Designed JWT-based authentication with RBAC, comprehensive audit logging, and event sourcing for decision tracking.
- **Full Stack Mechanic Shop Management System | <https://daniels-mechanic-shop.onrender.com>**
 - **Tech Stack:** TypeScript, React, Node.js, Express.js, MongoDB, Bootstrap
 - Built full-stack appointment scheduling system with phone-based customer authentication
 - Designed MongoDB schema with 4 collections for customers, vehicles, appointments, and time slots.
 - Implemented RESTful endpoints for customer management, vehicle tracking, and appointment booking.
 - Created responsive admin dashboard for managing appointments, customers, and available time slots.
 - Deployed on Render with production build configuration and environment variable management.
- **Personal Portfolio Website | <https://fqa.info>**
 - **Tech Stack:** React 19, TypeScript, Tailwind CSS, Vite, EmailJS
 - Built responsive single-page application with component-based architecture and mobile-first design.
 - Implemented custom AI chat widget system with real-time messaging and typing indicators.
 - Integrated EmailJS for contact form functionality with form validation and submission handling.
 - Configured automated CI/CD pipeline using GitHub Actions for deployment to GitHub Pages.
- **AltCaps iMessage Extension | <https://apps.apple.com/us/app/altcaps/id6745569694>**
 - **Tech Stack:** Swift, iOS SDK, iMessage Extensions Framework
 - Developed and published an iOS iMessage extension for text formatting.
 - Designed user interface and implemented text manipulation algorithms.
 - Successfully deployed to App Store with full review process completion.

WORK EXPERIENCE

Full Stack Developer

September 2020 – December 2023

CapTech, Reston, VA

- **Client: Fortune 500 Hospitality and Tourism Company**
 - Contributed to the development of a customer-facing iOS application, integrating secure facial recognition and AWS-powered backend services.
 - Assisted in building a high-performance iOS application with a seamless facial recognition authentication system using TensorFlow ML models for local processing and AWS Lambda for real-time data handling.
 - Implemented AWS SNS to send remote notifications upon successful facial recognition authentication.
 - Helped implement AWS KMS encryption to secure customer data (personal info & facial scans) in Amazon DynamoDB with fine-grained access control.
 - Applied JUnit 5 and Mockito for test-driven development (TDD), automating test execution to maintain high code quality.
- **Client: Fortune 500 Banking Card Company**
 - Developed high-performance Go microservices for the client's secured card platform, integrating with existing Java APIs to enhance system efficiency and reduce response times.
 - Built Go handlers and services to manage HTTP requests, reducing latency by up to 20% through optimized API interactions.
 - Leveraged Goqu for PostgreSQL database queries and seamless data retrieval.
 - Implemented Jenkins and Maven pipelines to automate builds, testing, and deployments, ensuring consistent and reliable software updates.
- **Client: PGA Tour**
 - Developed and optimized Kotlin-based API endpoints, enhancing the safety, reliability, and performance of the PGA Tour Shotlander application.
 - Refactored Java endpoints to Kotlin, improving code safety and reliability.
 - Monitored and analyzed PostgreSQL database modifications using pgAdmin, ensuring seamless integration with backend services.
 - Used Postman and Cucumber to rigorously test API responses for accuracy and consistency, as well as Gradle for efficient project management and build automation.
- **Client: Fortune 500 Gas Transmission & Storage Company**
 - Upgraded and migrated backend Java APIs to support transition from client's old website to a new platform, integrating new features to improve internal workflows and optimize gas transmission operations.
 - Refactored and modernized Java-based microservices using Spring Boot, ensuring seamless integration with the new website.
 - Implemented MongoDB for efficient data storage, retrieval, and management.
 - Applied JUnit 5 and Mockito for test-driven development (TDD), automating test execution to maintain high code quality.
- **Client: Fortune 100 Hospitality and Tourism Company**
 - Redesigned Governance, Risk, and Compliance (GRC) workflows in ServiceNow to streamline audit and risk tracking processes.
 - Developed client-side and server-side JavaScript scripts to automate assessments and improve data accuracy.
 - Enhanced PDF generation functionality using ServiceNow's scripting APIs for improved reporting.
 - Implemented automated email notifications for compliance updates and milestone alerts.
 - Collaborated with Directors of Information Security using Agile methodologies and Jira for project tracking.