

# BRANDON LWE

## FULL-STACK SOFTWARE ENGINEER

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### WORK EXPERIENCE

#### Kingland Systems, Software Engineer

MAR 2024 - PRESENT

- Engineered a parallel processing enhancement for the **SQS**-driven deltafication pipeline on **AWS Fargate** by partitioning large workflow messages into distributed workloads; reduced end-to-end processing time by 90% and alleviated queue bottlenecks
- Developed comprehensive integration and unit test suites using **SpringBootTest**, **JUnit**, **Mockito**, and **LocalStack**, significantly improving service reliability and test coverage
- Built and refactored **RESTful API** endpoints in **SpringBoot**, implementing **MDC**-based logging interceptors for end-to-end request traceability, reducing support and defect triage effort
- Improved ephemeral environment reliability by introducing new **CI pipeline** jobs to preload sample data via automated import workflows, and implemented **Python**-based health checks and structured logging through pipeline artifacts for faster validation and troubleshooting

#### Kingland Systems, Advanced Software Engineer Intern

JUN 2023 - DEC 2023

- Assisted in migrating core processes of an enterprise application to **AWS Batch** using **Jakarta Persistence** and **SQLite**, resolving Out-of-Memory issues and reducing infrastructure costs by 30%
- Increased unit and branch test coverage from 50% to 90% using **JUnit 5**, **Mockito**, and **JaCoCo**, improving code reliability and maintainability
- Implemented **CI/CD automations** in **GitLab**, integrating **Docker** and **Terraform** workflows along with version control and code review practices to accelerate build and deployment cycles
- Developed a web-based Scrum Poker tool using **ReactJS**, **ExpressJS**, and **WebSockets** which expedited agile team in sizing tasks for bi-weekly sprints

#### Dbix Systems Sdn Bhd, Full-Stack Software Developer

AUG 2018 - MAR 2019

- Developed an internal Invoice Receiving System using **Angular 6** and **SailsJS**, streamlining invoice workflows and accelerating processing time for client staff
- Developed a lightweight Android application in **Android Studio** to capture and process customer identification cards, integrating **SOAP**-based services for secure data storage; delivered independently ahead of schedule, contributing to a 25% increase in revenue

### PROJECTS

#### Code Collaboration Platform

2025-2026

- Engineered a real-time code collaboration feature leveraging **Socket.IO** and **Monaco Editor** that enables simultaneous multi-user code editing
- Spearheaded a team of 4 interns to deliver the real-time collaboration platform, coordinating work through **GitHub Projects**, leading daily **standups** and bi-weekly **retrospectives**, and establishing sprint **milestones** to maintain on-time delivery
- Developed full-stack backend infrastructure combining Socket.IO WebSocket handlers, **Prisma ORM** and **GCP Cloud Storage** buckets for hierarchical file tree operations, containerized **Python** runtimes on **Google Cloud Run**, and **Winston**-based observability

### TECHNICAL SKILLS

- Languages:** Java, Typescript, Javascript, Python, Go, PHP, C/C++
- Framework & Libraries:** SpringBoot, Angular, React, NodeJS, NextJS, Android Studio
- Databases:** PostgreSQL, MySQL, NoSQL, Neo4j

### EDUCATION

#### B.S. Software Engineering | Iowa State University, Ames, IA

2023

CGPA : 3.96/4.00

#### Diploma in Information Technology | Sunway University, Malaysia

2018

CGPA: 3.90/4.00