Aung Ye Thant Hein

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Education

Singapore Management University (SMU) — Singapore, Singapore
Bachelor of Science in Computer Science — *Aug. 2024 – Present*

- Dean's List (AY 2025-26)
- **Relevant Coursework:** Data Structures & Algorithms, Computer Networks, Operating Systems, Object-Oriented Programming (Java), Data Management

Experience

Gosoft (Thailand) Co., Ltd. — Bangkok, Thailand
Software Engineer Intern — *May 2026 – Aug. 2026*

- Developed backend services in TypeScript/Node.js for the customer loyalty and promotion platform powering the 7-Eleven Thailand mobile app
- Designed RESTful backend APIs for real-time campaign validation, engineering endpoints optimized to meet sub-200ms response time for a 14.5 million user base

Singapore Management University — Singapore, Singapore
Teaching Assistant — *Jan. 2026 – May 2026*

- Served as Teaching Assistant for CS203: Collaborative Software Development

Projects

Scrooge Bank CRM | *TypeScript, Node.js, React, PostgreSQL, AWS, Terraform*

- A CRM for a private bank's relationship managers on AWS, covering KYC onboarding, core-banking transactions, AI client briefings and agent offboarding
- Engineered agent offboarding that reassigns every client in a database transaction using matching rules, orchestrated with AWS Step Functions and email notifications
- Developed and automated KYC document checks with Amazon Textract that route mismatches to manual review
- Led the deployment on AWS (ECS Fargate, Aurora PostgreSQL, Lambda, SQS, DynamoDB) with Terraform and GitHub Actions CI/CD, secured with least-privilege database logins and TLS on every hop

URL Shortener | *Java, Spring Boot, PostgreSQL, Redis, Docker*

- A URL-shortening service with collision-free short codes, click analytics and per-user rate limiting.
- Built a scalable URL shortening service using Java Spring Boot, PostgreSQL, and Redis, generating collision-free short codes with Sqids and database sequences
- Implemented asynchronous request analytics to track HTTP metadata (Referer, User-Agent) and optimize performance through Redis caching and TTL policies
- Strengthened platform security with JWT-based authentication, SMTP email verification, and Bucket4j token-bucket rate limiting to mitigate API abuse, with unit tests for business logic and Spring MockMvc integration tests for authentication and rate-limiting flows

Skribbl Clone | *React, Node.js, Socket.IO, AWS ECS Fargate*, Docker

- A real-time multiplayer drawing and guessing game with competitive scoring.
- Implemented real-time bidirectional communication using Socket.IO to synchronize state across concurrent users
- Designed scalable state-management logic for room synchronization, turn-based gameplay, round timers and chat-based scoring system
- Built and deployed a containerized architecture on AWS ECS Fargate using Amazon ECR, AWS ACM, and an Application Load Balancer (ALB) with path-based routing for HTTP and WebSocket traffic

Technical Skills

Languages: Java, TypeScript, JavaScript, SQL
Backend & Web: Spring Boot, Node.js, Express.js, React, Socket.IO
Databases: PostgreSQL, Redis, DynamoDB
Cloud & DevOps: AWS (ECS Fargate, Lambda, Aurora, SQS, Step Functions), Docker, Terraform, GitHub Actions, Linux, Prometheus, Grafana
Concepts: REST APIs, Microservices, Event-Driven Architecture, WebSockets, JWT Authentication
Testing & Tools: JUnit, Mockito, Spring MockMvc, Git, Postman