

Hana Emari

Full-Stack Software Engineer

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SUMMARY

Recent Computer Science graduate with hands-on experience building full-stack web applications, relational databases, cloud-hosted services, authentication workflows, and AI/RAG prototypes. Skilled across frontend, backend, database, QA testing, scalability design, Linux, AWS deployment, and collaborative software leadership.

EDUCATION

San Francisco State University

2026

B.S., Computer Science

• **Coursework:** Operating Systems, Software Engineering, Machine Structures, Web Development, Quantum Computing

College of San Mateo

Present

Certificate of Specialization, Java Programming

SELECTED PROJECTS

Kinoko

Present

- Designed and built a full-stack social platform for Japanese language learning using React, Node.js/Express, MySQL, AWS S3, and EC2.
- Implemented secure JWT authentication, user profiles, collections, search, and a scalable image upload pipeline using pre-signed S3 URLs and REST APIs.
- Optimized media storage by introducing client-side WebP compression, reducing uploaded image size by ~36% while maintaining visual quality.

Plotline

2025

- Led a 6-person development team using Agile development practices through planning, architecture, implementation, integration, testing, documentation, and delivery of a semester-long software engineering project.
- Developed relational database architecture with many-to-many relationships, integrated external movie metadata APIs, and backend services using Java Spring Boot.
- Directed QA planning, usability testing, scalability analysis, code review processes, technical documentation, and non-functional requirements validation.

Student Task Management Database System

2025

- Designed a database-driven academic task management system with EER diagrams, relational schemas, normalization strategies, constraints, backend functionality, and query optimization.

Retrieval-Augmented Generation (RAG) Prototype

2026

- Built a prototype integrating document retrieval with LLM responses; explored embeddings, retrieval pipelines, context augmentation, and practical strengths and limitations of RAG architectures.

EXPERIENCE

San Francisco State University | *Software Engineering Team Lead*

2026

- Led cross-functional collaboration, sprint planning, architecture discussions, QA reviews, and project delivery for a semester-long software engineering capstone.
- Coordinated frontend, backend, database, and deployment efforts while ensuring project quality and scalability objectives

CQM.us | *Freelance Website & Digital Content Developer*

Present

- Supported website content development, multimedia production, and digital media initiatives for professional services and educational content.

S.A.M. Singapore Maths | *Mathematics Tutor*

Present

- Delivered individualized instruction and collaborated on educational process improvements to strengthen student learning outcomes.

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL, C++, Assembly
- **Frontend:** React, HTML, CSS, JavaScript, UI/UX Design, Next.js, Figma
- **Backend & APIs:** Node.js, Express, REST APIs, Authentication Systems, CMS
- **Databases:** MySQL, EER Modeling, Normalization, Query Optimization, Constraints
- **Cloud & DevOps:** AWS EC2, S3-Compatible Storage, Linux, Git/GitHub, Deployment Workflows
- **QA & AI:** QA Test Planning, Usability Testing, Security Checks, Code Review, RAG, Embeddings