

Karryl Dumalag

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EDUCATION

Arizona State University, Tempe, AZ

May 2025

B.S.E, Computer Systems Engineering

- Coursework: Algorithms, Data Structures; Networks; Operating Systems; Computer Architecture, Embedded Systems

College of Southern Nevada, Las Vegas, NV

May 2021

A.S., Applied Science (honors)

SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks & Technologies: Spring Boot, React, Next.js, .NET, PostgreSQL, REST APIs, Microservices

DevOps & Cloud: Docker, Kubernetes, AWS/GCP, CI/CD, Git, Linux, Agile

EXPERIENCE

Software Engineer | Irenix

Jul 2025 - Present

- Engineered AI-enhanced healthcare workflows by leading full-stack EHR development with early LLM integrations, improving predictive insights and user experience across the application.
- Improved system reliability by 25% through refactoring inefficient REST endpoints that performed excessive processing, implementing optimized microservice patterns and database schema improvements.
- Delivered end-to-end feature implementation with minimal supervision, taking projects from initial design while also collaborating with cross-functional stakeholders.

Software Engineer Fellow | General Dynamics Mission Systems

Aug 2024 - May 2025

- Accelerated QA cycles by creating an automated testing framework with OCR-based validation, strengthening CI/CD reliability and reducing manual testing overhead across the development pipeline.
- Shaped project strategy through data-driven insights, presenting comprehensive test analysis to engineering and program leadership that influenced subsequent development priorities.

Software Developer Intern | 28 Gorilla Engineering

Mar 2024 - Apr 2025

- Reduced data latency by 16% by designing and implementing scalable, multi-threaded IoT testing system for real-time performance validation of battery management systems.
- Designed a real-time data pipeline to ingest and process high-frequency BMS telemetry, enabling low-latency analysis and dynamic charting for large-scale battery performance monitoring.
- Increased team productivity by documenting workflows and implementing organizational improvements that streamlined daily operations.

Surface Support Advocate | Education At Work

Jan 2023 - Jul 2023

- Contracted by Microsoft to resolve an average of 40+ enterprise-level technical issues per month for Surface devices by providing remote troubleshooting and system diagnostics, reducing client downtime by 25%.

PROJECTS

Personal Website: KayeJD.github.io

Volx – Banking App | *Next.js, TypeScript, Appwrite, Plaid, Dwolla, React, TailwindCSS*

Apr 2024 - Dec 2024

- Built a secure, SSR-authenticated financial app with real-time transaction tracking and automated payments by integrating Plaid/Dwolla APIs and balancing performant UI design with robust backend logic.

Spotify Analytics Web Dashboard | *Javascript, Express.js, Pug, CSS, OAuth2*

Nov 2023 - Dec 2023

- Engineered a real-time music analytics web dashboard enabling users to securely log in with Spotify and view their up-to-date listening statistics.