

# 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

**College of Southern Nevada, Las Vegas, NV**

**May 2021**

*A.S., Applied Science (honors)*

## SKILLS

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

**Frameworks & Technologies:** React, Next.js, .NET, PostgreSQL, REST APIs, AI/ML

**DevOps & Cloud:** Google Cloud Platform, Docker, Linux, CI/CD, Agile, Git

## EXPERIENCE

**Irenix** | *Software Engineer Volunteer*

**Jul 2025 - Present**

- Led a small cross-functional team of frontend and backend engineers to build a greenfield full-stack platform, contributing to backend architecture and predictive analytics using Python, and using React frameworks with Typescript for frontend web development.
- Designed and implemented containerized cloud infrastructure for an EHR system on Google Cloud, improving uptime by 25% and enabling scalable microservice data exchange.
- Optimized application data handling, reducing client-side latency by approximately 10% and improving overall performance.

**General Dynamics Mission Systems** | *Software Engineer Fellow*

**Aug 2024 - May 2025**

- Accelerated automated testing by ~20% by creating a cross-platform testing framework tailored for secure communications distributed systems under strict DoD standards.
- Increased test coverage by integrating OCR-driven validation modules into the CI/CD pipeline, improving the accuracy and reliability of encrypted communication verification.
- Influenced later project direction by presenting detailed test reports and strategic recommendations to stakeholders, strengthening alignment across engineering and program teams.

**28 Gorilla Engineering** | *Software Developer Intern*

**Mar 2024 - Apr 2025**

- Improved IoT testing efficiency in performance validation by 16% through creating a scalable, multi-threaded system that reduced real-time data latency during machine evaluations.
- 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.
- Boosted team productivity by documenting workflows and implementing organizational improvements that streamlined daily operations.

**Education At Work** | *Enterprise Technical Support Specialist*

**Jan 2023 - July 2023**

- Resolved an average of 40+ enterprise-level technical issues per week for Microsoft Surface devices by providing Tier 2/3 remote troubleshooting, system diagnostics, and escalation support, reducing client downtime by 25%.

## PROJECTS

**Personal Website:** [KayeJD.github.io](https://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.