

# Karryl Dumalag

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## SUMMARY

A Systems Engineer with strong interpersonal skills and a commitment to clear communication and iterative development. Has 2+ years of professional experience building scalable software systems through startup internships and government contract projects. Proven ability to learn new frameworks and environments efficiently to develop software solutions, streamline development pipelines, and contribute to testing and CI/CD workflows.

## PROFESSIONAL EXPERIENCE

**Project Contributor – Secure Communications QA, General Dynamics Mission Systems** Aug 2024 - April 2025

- Conducted development of a cross-platform testing framework, accelerating automated test creation by ~20%.
- Integrated OCR-driven validation modules, increasing test coverage by 30% and enhancing secure communications verification.
- Created and delivered stakeholder-facing presentations on final deliverables, test results, and strategic recommendations, showcasing technical insights and aligning with project goals.
- Collaborated in Agile sprints with engineers and program managers to ensure quality outcomes met evolving client requirements.

**Software Developer Intern, 28 Gorilla Engineering** Mar 2024 - May 2025

- Contributed to the development of a scalable, multi-threaded backend system, reducing real-time data latency by 16%.
- Delivered responsive UI/UX using modern JS frameworks, improving interaction speed and user satisfaction.
- Refactored and streamlined legacy documentation pipelines, cutting technical writing time by 25% and boosting overall team efficiency by ~10%.

**Turn Pro Member, Management Leadership for Tomorrow** June 2023 - April 2024

- Completed coursework on cross-functional team management, executive communication, and stakeholder alignment.
- Engaged with Fortune 500 leaders in tech and consulting; applied principles of ownership and influence to technical team environments.

**Microsoft Surface Enterprise Support, EAW Partners** Jan 2023 - July 2023

- Delivered technical support to 30+ enterprise clients weekly, achieving rapid issue resolution through thorough root-cause analysis.
- Enhanced end-user productivity by minimizing downtime via proactive troubleshooting and escalation handling.
- Documented recurring issues and coordinated with product teams to suggest improvements, streamlining future support workflows.

## PROJECT EXPERIENCE

**BKP – Electronic Load Simulation & Control Program, 28 Gorilla Engineering** Feb 2025 - Mar 2025

- Led design and delivery of a device interface platform using SCPI, reducing onboarding time for hardware developers by 50%.
- Architected a session-based replay and logging system to support repeatable debugging and data validation

**VOLEX – Banking App** April 2024 - Dec 2024

- A secure, SSR-authenticated financial management app visualizing real-time transaction tracking and payment automation.
- Integrated APIs like Plaid/Dwolla for live data sync and bank account linkage.

**Spotify Analytics Web Dashboard** Nov 2023 - Dec 2023

- A Spotify-based web dashboard displaying real-time music analytics using OAuth2 and server-side rendering techniques.
- Developed authentication flows and API integration to enable secure user data access.

**EffortLogger v2.0** June 2023 - Dec 2023

- Led a team of 4 developers to deliver a secure, privacy-first sprint planning platform, reducing administrative time by 27%.
- Managed the full software development lifecycle (SDLC) from concept through deployment, including Agile documentation and backlog grooming.

## EDUCATION

**B.S.E Computer Systems Engineering** May 2025  
Arizona State University

- Certificate in Mathematical Concepts of Engineering**
- Key Coursework: Algorithms & Data Structures; Networks; Software Engineering; Operating Systems; Computer Architecture.

**Applied Science (AS) (honors) (3.8/4.0 GPA)** May 2021  
College of Southern Nevada

## SKILLS

**Technical:** C#, C++, Python, JavaScript, SQL, React, Go, Linux, .NET, API, AWS, Agile, SDLC, Test-Driven Development, CI/CD