Karryl Dumalag

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EDUCATION

Bachelor of Science in Engineering, Computer Systems Engineering May 2025
Arizona State University, Tempe, AZ
- Relevant Coursework: Algorithms & Data Structures; Networks; Operating Systems; Computer Architecture; Embedded Programming

SKILLS

Technical Skills: React, Next.js, .NET, Prisma, PostgreSQL, REST APIs, Google Cloud Platform, Linux, CI/CD, Agile
Languages: Python, Java, C/C++, JavaScript, Typescript, SQL

PROFESSIONAL EXPERIENCE

Software Engineer, Intern | *Irenix* Jul 2025 - Present
- Engineered backend infrastructure and testing environments for a HIPAA-compliant EHR system in Google Cloud, increasing uptime by 25% and supporting scalable data exchange across microservices.
- Refactored app data handling logic, cutting client-side latency by 30% and improving overall app performance.

Software Engineer, Student Contract (Capstone) | *General Dynamics Mission Systems* Aug 2024 - May 2025
- Accelerated automated test creation by ~20% by developing a cross-platform testing framework tailored for secure communications systems under strict DoD standards.
- Increased test coverage by integrating OCR-driven validation modules, improving accuracy and reliability of encrypted communication verification.
- Influenced project direction by presenting detailed test reports and strategic recommendations to stakeholders, strengthening alignment across engineering and program teams.

Software Developer, Intern | *28 Gorilla Engineering* Mar 2024 - Apr 2025
- Improved IoT testing efficiency regarding performance validation by 16% by developing a scalable, multi-threaded backend 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.

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

SOFTWARE PROJECTS

VOLEX – 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.

EffortLogger v2.0 | *JavaFX, FXML, MySQL* Jun 2023 - Dec 2023
- Reduced administrative overhead by 27% by leading a team of 4 developers to deliver a secure, privacy-first sprint planning platform.
- Managed end-to-end software development lifecycle by overseeing project scoping, Agile documentation, backlog grooming, and deployment, for timely and structured delivery.