Karryl Dumalag

kjdumalag@gmail.com | www.linkedin.com/in/karryldumalag/

EDUCATION

Bachelors of Computer Systems Engineering (BSE)　　　　　　　　　　　　　August 2021 - May 2025
Arizona State University, Tempe, AZ
- <u>Relevant Coursework:</u> Algorithms and Data Structures, Software Engineering, Data Science, Networks, Operating Systems, Design/Synthesis of Digital Hardware, Circuits, Signal Processing, Embedded Microprocessor Systems, Computer Architecture.
- **Certificate: Mathematical Concepts of Engineering**　　　　　　　　　　　　May 2025

Applied Science (AS) *(honors)* *(3.8/4.0 GPA)*　　　　　　　　　　　　　　August 2019 - May 2021
College of Southern Nevada, Las Vegas, NV

WORK EXPERIENCE

Software Developer Intern | 28 Gorilla Engineering | Chandler, AZ　　　　　　March 2024 - Present
- Engineered a scalable, multi-threaded data collection and processing backend architecture, reducing real-time data analysis latency by 16% and delivering interactive GUI web interfaces to enhance UI/UX.
- Revamped documentation workflows, eliminating inefficiencies and boosting work productivity by 10%.
- Advanced hardware development by creating schematics, reverse-engineering circuit boards, and performing soldering to meet technical requirements.

Turn Pro Member | Management Leadership for Tomorrow | Washington, D.C.　　June 2023 - November 2025
- Professional development program designed for diverse undergraduate talent from select universities
- Completed targeted coursework to enhance career development skills and broaden industry knowledge.
- Engaged with industry leaders in technology, financial services, consulting, marketing, HR, and healthcare through specialized events and networking opportunities.

Microsoft Enterprise IT Support | Education At Work | Tempe, AZ　　　　　　January 2023 - July 2023
- Performed diagnostic tests and analyzed error logs, resolving technical issues 20% faster than the average resolution time.
- Generated detailed work orders and documentation, streamlining workflow and improving issue tracking efficiency by 15%.

TECHNICAL PROJECTS

Website Portfolio: https://kayejd.github.io/　　　　　　　　　　　　　　　　May 2022 - Present

General Dynamics Mission Systems - Secure Communication Platform Testing　　August 2024 - Present
- <u>Tech Stack:</u> Qt, Python, Squish, Linux, Git
- Designing and implementing a comprehensive test process for a secure communication platform on a Linux platform

VOLEX: Banking App　　　　　　　　　　　　　　　　　　　　　　　　　April 2024 - Present
- <u>Tech Stack:</u> Next.js, TypeScript, Appwrite, Plaid, Dwolla, React Hook Form, Zod, TailwindCSS, Chart.js, ShadCN
- Developing a secure SSR-authenticated platform for managing finances, featuring transaction tracking, payment management, and dynamic financial data visualization.

Spotify WebAPI Integration　　　　　　　　　　　　　　　　　　　　　　Nov 2023 - Dec 2023
- <u>Tech Stack:</u> Javascript, Express.js, Pug, CSS, API, OAuth2
- Engineered a backend system using Express.js to handle OAuth2-based user authentication, efficiently manage API requests, and deliver dynamic content.
- Integrated Spotify's API to generate personalized song recommendations, enhancing user engagement.

Credit Card Fraud Detection　　　　　　　　　　　　　　　　　　　　　　Oct 2023 - Nov 2023
- <u>Tech Stack:</u> Python, Jupyter, pandas
- Built a machine learning model with TensorFlow to detect fraudulent transactions, improving model accuracy by 18% through data balancing and optimized precision, recall, and F1-score metrics.

EffortLogger v2.0　　　　　　　　　　　　　　　　　　　　　　　　　　Sep 2023 - Dec 2023
- <u>Tech Stack:</u> Eclipse, JavaFX, FXML, MySQL
- Led a team to develop privacy-focused software for Sprint Planning, streamlining collaboration and reducing management overhead by 27%.
- Managed the full development lifecycle, including testing, UML diagram creation, and comprehensive documentation.

SKILLS

Technical: C/C++ | Java | Python | Go | Javascript | Database management | OOP | Shell Scripting | React | Linux | Git | TCP | REST | SQL
Soft: Agile | Documentation | Communication | Adaptable | Test-Driven Development | User Requirements | SDLC | CI/CD | Troubleshooting