Karryl Dumalag

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EDUCATION

B.S.E., Computer Systems Engineering | Arizona State University, Tempe, AZ   Aug 2021 - Present
- **CS Coursework:** Algorithms and Data Structures, Operating Systems, Software Engineering, Networks
- **EE Coursework:** Circuits, Signal Processing, Embedded Microprocessor Systems, Computer Architecture

PROFESSIONAL DEVELOPMENT

28 Gorilla | Chandler, AZ | Software Development Intern   March 2024 - Present
- Contributed to the development and maintenance of a modular and scalable backend architecture for an IoT device management system application using Python, handling FTP, Modbus, and socket communication.
- Assisted in the implementation and optimization of a multi-threaded data collection and processing system to monitor and analyze real-time data from IoT devices, using libraries such as eventlet, threading, and openpyxl.
- Implemented responsive and user-friendly web interfaces displaying interactive visualizations and dashboards using libraries like Plotly to display real-time data.

Management Leadership for Tomorrow | Washington, D.C. | Turn Pro Participant   June 2023 - Present
- Engage in this professional development program for diverse undergraduate talent attending select universities
- Complete program coursework to hone career-development aptitude and industry knowledge
- Attend events hosted by industry leaders in technology, financial services, consulting, marketing, HR and healthcare

Education At Work | Tempe, AZ | Microsoft Enterprise IT Support   Jan 2023 - July 2023
- Run diagnostic tests, analyze error logs, and leverage technical documentation to identify root causes and implement effective solutions
- Create detailed work orders and documentation to track and communicate the status of technical issues, ensuring transparency and efficient workflow management

TECHNICAL PROJECTS

Website Portfolio: https://kayejd.github.io/

EffortLogger v2.0   Sep 2023 - Dec 2023

Leading a team of five, this project builds a software program using Java to provide privacy for users, and eliminate incoordination potential within teams in Sprint Planning and other management processes.
- Built on Eclipse using JavaFX with FXML for UI/UX design. MySQL for database management
- Full development process documentation. (End-to-end service, development testing, UML diagrams, etc.)

Spotify WebAPI   Nov 2023 - Dec 2023

Javascript and PUG project integrating Spotify's API into a web application, allowing users to authenticate, access their top tracks, artists, and genres, and receive personalized recommendations.
- Successfully integrated OAuth2 authentication, token management, and making diverse API requests to fetch user data. Leveraged asynchronous JavaScript using async/await to handle multiple API requests concurrently
- Developed the backend of the application using Express.js, creating robust routes, handling authentication flows, and serving dynamic content to the frontend.

Credit Card Fraud Detection   Oct 2023 - Nov 2023

Project aims to identify fraudulent transactions within a highly imbalanced dataset using machine learning techniques and the utilization of Python with libraries like pandas, scikit-learn, and TensorFlow for data manipulation and analysis.
- Utilized evaluation metrics such as precision, recall, and F1-score to assess and compare model performance.

SKILLS

Technical: C/C++ | Java | Python | Javascript | Docker | AWS | Git | HTML/CSS | Node.js | REST | Tableau
Soft: Communication Skills | Adaptability | Test Driven Development | User Requirements | SDLC