Dennis Weng Han Ong

https://github.com/dennisong45

Email : dennis.owh@icloud.com

Mobile : +1-669-282-8338

EDUCATION

- **California State University East Bay** — Bay Area, CA
  Bachelor of Science in Computer Science CGPA: 3.61

EXPERIENCE

- **American Express - Contracted** — Hybrid - Phoenix
  Software Engineer II — *February 2022 - Present*
  - **Fraud Algorithm Context Team**: Made critical decisions to ensure project and application success and met business needs. Designed and implemented a distributed graph solution that processed millions of nodes and edges in real-time, resulting in a 30 percent reduction in resource usage using Java and Vert.x data structures and leverage Couchbase
  - **Full Stack Sub-Team Lead - Privacy Compliance**: Led and mentored a high-performing team of two full-stack developers to design, develop, and implement robust compliance solutions, specifically targeting cookie consent and privacy regulations in EU nations and California. Influenced the user experience and privacy controls of over 56 million users, successfully managing and processing opt-out requests for millions of records on a monthly basis, thus upholding our commitment to user data privacy and choice.
  - **Enhance**: Integrate enrichment data for customers from the back-end standpoint for fraudulent teams. Allow the fraud team to have more context on customers' spending, and increase the fraudulent catch rate by 30 percent.
  - **Unit-Test**: Writing automated tests in Java Junit and Node Playwright. Reduced Regression Testing by 50 percent faster by running using multiple-threads and async methods
  - **Core**: Work with product owners to prioritize features for ongoing sprints and manage a list of technical requirements based on industry trends, new technologies, known defects, and issues.
  - **Vert.x and Spring-boot**: Refactor Legacy application that used Spring Boot, which had become complex, hard to maintain, and difficult to scale. Refactored the code-base and migrated the application to Vert.x, which provided a more lightweight, reactive, and event-driven architecture.
  - **Technologies Used**: Java 11, Spring-boot, Vert.x, Couchbase, AWS, GitHub , React, Jenkins, Openshift, Kubernetes, Dockers, Liquid Jekyll, Bootstrap , Bash

Bioforcetech — South San Francisco, CA
Software Engineer Internship (On-site) — *Summer,Winter - 2020,2021*

- **Data Read/Write IoT**: Develop algorithms to increase read/write speed of IoT Hardware by 30 percent by optimizing Firmware in C++ and Linux Operating System

- **IoT Networking** : Implement a reverse tunnel feature synchronize that only open it to wide area network through the cloud once activated. Allow IoT to exist only in Local Area Network without activating it.

- **Cloud**: Developed a Cloud platform that allows user to integrate multiple IoT into it. Hosting in AWS. Set up load-balancing, Laravel Object Oriented and RESTFUL API

- **Technologies Used**: PHP, Laravel, Javascript, AWS, GitHub , React, C++, C , Linux , Bash

PROJECTS

- **Power Log**: Over 100+ Users A published iOS React Native Application. Allow users to store exercise log everyday and refer up to 2 years back. Using Firebase Database for Automatic Scaling. Using Google Auth and Apple Sign in for User anonymity and encrypted AES for privacy reasons

ACCOMPLISHMENT

- **Honors Student**: Graduating with 3.6 CGPA at Cal State East Bay
- **International Pioneer Scholarships**: Global Honors Scholarship Selected out of 150+ Applicants
- **National Programming Olympiad** : Home Country Competitive Programming Competition Ranked 8/12 against Seniors
- **President Of Cal State East Bay International Council** : Numerous events and networking sessions and manages 300+ international students