Albert (Wei Jun) Ong

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EDUCATION

University of California, Los Angeles

Los Angeles, CA

Bachelor of Science in Computer Science

Expected Graduation: Jun 2025

- GPA: 4.0/4.0
- Upsilon Pi Epsilon (Computing Honor Society), Tau Beta Pi (Engineering Honor Society)
- Relevant coursework: Data Structures and Algorithms, Computer Architecture, Algorithms and Complexity, Software Construction, Real Analysis, Discrete Structures, Linear Algebra, Multivariable Calculus

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, C++, Go, SQL, JPQL, HTML/CSS, Bash

Frameworks: React Native, Spring Boot, Express, Gin, JAX Libraries: React, NumPy, Redux, pandas, scikit-learn, GORM

Others: Docker, Kubernetes, Amazon Web Services, Node.js, MongoDB, MySQL, PostgreSQL, Git, Postman

EXPERIENCE

ISAFE Enterprises, Carlsbad, CA | Software Engineer Intern

Jun 2023 – Present

• Building Android and iOS-compatible application using React Native

Physics of AmoRphous and Inorganic Solids Lab, UCLA | Research Assistant

Oct 2022 – Present

- Developing a Python differentiable molecular dynamics framework for peridynamics simulation using Google JAX
- Refactoring Lattice object and creating unit tests for 4 core functions to improve simulation box initialization
- Overhauling the per-atom dilatation calculation module and devising 3+ comprehensive test environments

STACS, Singapore | Software Engineer Intern

Jan 2022 – Jul 2022

- Developed 7+ critical post-trade reporting and asset servicing modules using React and Java
- Designed and implemented REST API for 5 modules within securities management platform
- Fixed and optimized JPQL queries spanning 15+ columns in 5+ relational databases to fetch asset details
- Co-authored company's internal React library (used by tech team of 20+ developers) to refactor frontend codebase

Singapore University of Technology and Design, Singapore | Student Researcher

Mar 2018 – Feb 2019

- Developed a supervised Machine Learning program to classify unstructured texts in cybersecurity reports PDF
- Optimized ML program to achieve 83.3% accuracy by using TF-IDF at character level for text vectorization

ACTIVITIES

Daily Bruin, UCLA | Software Engineer

Oct 2022 – Present

- Designing Go backend modules for management platform to monitor statuses of 7+ websites used by 200+ editors
- Developing cron job logic to enable concurrent monitoring of website health
- Creating efficient monitor modules using Go's concurrency primitives, reducing error discovery time to minutes
- Containerizing internal tools projects and managing dependencies using Docker and Kubernetes

Projects

Bruin Laundry | github.com/gloom/Laundry-Room-Maintenance-Portal

Feb 2023 – Mar 2023

- Created a dynamic web application to report and inform broken laundry machines in UCLA dorms
- Built REST API using Node and Express to facilitate fetching and updating of machine statuses
- Implemented database schemas on MongoDB and set up RESTful endpoints
- Final Project for COM SCI 35L: Software Construction

Discord Reminder Bot | github.com/g1oom/reminder_bot

Aug 2021 – Sep 2021

- Created a Discord bot using discord.js, allowing users to add and view reminders in channels
- Utilized Discord's API to create slash commands and design event handlers