Albert (Wei Jun) Ong

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EDUCATION

University of California, Los Angeles — Los Angeles, CA
Bachelor of Science in Computer Science — *Present*

- GPA: 4.0/4.0
- Junior class level
- Relevant coursework
  * Introduction to Computer Science I and II (Data Structures and Algorithms)
  * Software Construction
  * Introduction to Discrete Structures

EXPERIENCE

Software Engineer Intern — Jan 2022 – Jul 2022
STACS (Hashstacs Pte Ltd) — *Singapore*

- Partnered with the Philippine Dealing System Holdings Corp. and contributed to making it the first national market infrastructure in Asia to launch a DLT-based digital bond
- Developed critical post-trade reporting and asset servicing modules using React and Spring Boot
- Co-authored company's internal React library to refactor frontend UI for consistency and reusability

ACTIVITIES

Software Engineer — Oct 2022 – Present
Daily Bruin, UCLA — *Los Angeles, CA*

- Designing Go backend modules for management platform, which monitors the statuses of 7+ websites used by 200+ editors in UCLA's student-run newspaper organization
- Developing cron job logic to enable concurrent website health checks using Go's concurrency model and reduced error discovery time to minutes
- Implementing RESTful endpoints and database schemas for CRUD operations
- Containerizing and managing projects using Docker and Kubernetes

Undergraduate Research Assistant — Oct 2022 – Present
Physics of AmoRphous and Inorganic Solids Lab (PARISlab), UCLA — *Los Angeles, CA*

- Developing a differentiable molecular dynamics framework for peridynamics simulation using JAX
- Implementing automatic differentiation and parallel programming features to improve framework performance

Student Researcher (Research Mentorship Programme) — Mar 2018 – Feb 2019
Singapore University of Technology and Design — *Singapore*

- 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

PROJECTS

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

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++, Go, SQL, HTML/CSS
Frameworks: React, Spring Boot, Express, Gin, JAX
Libraries: NumPy, Redux, pandas, scikit-learn, GORM
Others: Git, MySQL, PostgreSQL, Docker, Kubernetes, Node.js