

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: 3.97/4.00
- Upsilon Pi Epsilon (Computing Honor Society), Tau Beta Pi (Engineering Honor Society)
- Relevant coursework: Neural Networks and Deep Learning, Computer Vision, Machine Learning, Distributed Systems, Operating Systems, Computer Networking, Computer Systems Architecture, Data Structures and Algorithms

TECHNICAL SKILLS

Languages: Python, Java, C, C++, Go, Bash, JavaScript, TypeScript, SQL, HTML/CSS, PHP, Verilog

Frameworks: PyTorch, JAX, Spring Boot, Express, FastAPI, Remix, React Native

Libraries: NumPy, pandas, scikit-learn, React, Redux

Others: Docker, Kubernetes, Azure, AWS, Redis, Linux/Unix, Node.js, MongoDB, MySQL, PostgreSQL, Git, Postman

EXPERIENCE

LinkedIn, Sunnyvale, CA | *Software Engineer Intern*

Jun 2024 – Sep 2024

- Built a self-service data platform with Remix and FastAPI to integrate real-time data from HR applications
- Developed automatic request and approval processes, reducing end-to-end data provision time by more than 95%
- Designed workflow that allows users to change data subscription details, eliminating weeks' worth of developer time to manually perform configuration changes
- Optimized pipelines to manage and process employee data securely with Azure Cloud Services and REST APIs

ISAFE Enterprises, Carlsbad, CA | *Mobile Developer Intern*

Jun 2023 – Sep 2023

- Built and deployed core modules for education-based mobile application using React Native
- Designed PHP script to authenticate client tokens from Google SSO with Firebase project
- Implemented Redux Saga middleware and REST API to facilitate creation, transfer and storage of documents

STACS, Singapore | *Software Engineer Intern*

Jan 2022 – Jul 2022

- Developed 7+ critical post-trade reporting and asset servicing modules using React and Spring Boot
- Optimized SQL queries spanning 15+ columns in 5+ relational databases to fetch client asset details
- Co-authored company's internal React library (used by tech team of 20+ developers) to refactor frontend codebase

RESEARCH

Center for Computer Vision and Imaging Biomarkers, UCLA | *ML Research Assistant*

Feb 2024 – Present

- Building and optimizing U-Nets trained on Gaussian heatmaps for anatomical landmark detection in chest x-rays
- Implementing knowledge graphs to streamline data pipelines and improve interpretability of detection models
- Contributing to SimpleMind, an AI framework that adds machine reasoning to deep neural networks

Physics of Amorphous and Inorganic Solids Lab, UCLA | *ML Research Assistant*

Oct 2022 – Jun 2023

- Utilized Google JAX to create end-to-end differentiable peridynamics simulations with Accelerated Linear Algebra
- Overhauled per-atom dilatation calculation module and devised comprehensive test environments
- Refactored core simulation unit and created unit tests for 4 core functions to improve simulation initialization

Singapore University of Technology and Design, Singapore | *ML Student Researcher*

Mar 2018 – Feb 2019

- Developed a supervised Machine Learning program to classify unstructured texts in cybersecurity reports PDF
- Achieved 83.3% testing accuracy by using character-level n-grams and TF-IDF-weighted features

AWARDS

- First Place - International Mathematical Modeling Challenge (Singapore) 2018
- Singapore Representative, Honorable Mention - International Mathematical Modeling Challenge 2018