

# Chaidhat Chaimongkol

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## EDUCATION

### University of California, Los Angeles

*B.S. in Computer Engineering, Minor in Entrepreneurship*

*Honors: Dean's List (2x) | Scholarships: Boeing Scholarship (2023-24)*

Los Angeles, CA

*Expected June 2026*

## PROFESSIONAL EXPERIENCE

### Founder & Lead Software Engineer

*Scholarity Co., Ltd.*

Jul 2022 – Present

*Bangkok, Thailand*

- Secured contract with a Fortune 500 client and 3 others; \$20,000 annual profit
- Built and deployed a full-stack E-learning platform (Dart, React, TypeScript, MySQL) with 50,000+ lines of code.
- Optimized backend with concurrency, algorithmic optimizations; reduced API response time by 72x since launch.
- Finalist at Google-backed hackathon; presented at Google LAX Office to business leaders and executives.

### Undergraduate Researcher, Website Lead

*Di Carlo Lab*

May 2024 – Present

*Los Angeles, CA*

- Created Python-based front-end UI for a robotic digital PCR system, exhibited at SLAS 2025 Biotech Conference.
- Integrated Wi-Fi and Bluetooth connectivity to control Raspberry-Pi based pumps and enable remote diagnostics.
- Programmed React/NextJS website to support seed funding for commercialization of the robotic system.

### Undergraduate Researcher

*Yijia Xiao Lab*

Mar 2025 – Present

*Los Angeles, CA*

- Developing Large Language Models (LLMs) using LangChain to analyze financial market trends.
- Working with research team to integrate Model Control Protocol to execute trades autonomously.

### Software Engineering Intern

*PTG Energy Group*

Jul 2024 – Sep 2024

*Bangkok, Thailand*

- Engineered Flutter frontend for enterprise tools (fleet management system, work permit system)
- Optimized back-end TypeScript algorithms to load data from MySQL server, observing 3x speed-up
- Coordinated with other interns to create high-impact graphics and marketing material

### Web Developer

*Department of Industrial Works*

Dec 2020 – Mar 2022

*Bangkok, Thailand*

- Coded full-stack safety checklist app (Flutter, NodeJS, MySQL) as part of \$119,000 contract
- Collaborated with occupational health & safety professionals to ensure data accuracy

## LEADERSHIP & INVOLVEMENT

### Team Lead, Brain-Computer Interface

*CruX at UCLA*

Sep 2023 - Jun 2024

*Los Angeles, CA*

- Led a team of 20 engineers to conduct study on improving concentration using binaural beats
- Prototyped a ML algorithm and app to process EEG signals; presented at California Neurotech Conference 2024

### Lead Engineer, Command & Data Handling Team

*Bruin Spacecraft Group at UCLA*

Feb 2023 - Mar 2024

*Los Angeles, CA*

- Headed team of 18 engineers in a startup-like engineering environment; taught and mentored students
- Wrote mission-critical flight software (C, Python, F Prime) and electronics hardware for cube satellite
- Programmed SAMD51s, TI MCUs and other embedded systems; designed and soldered PCBs with reliability

### Lead Engineer, Avionics

*Rocket Project at UCLA*

Sep 2023 - Jan 2024

*Los Angeles, CA*

- Worked with team of 12 engineers to build avionics, PCBs, and other electronic components for rocket

### Other Projects

- Made programming language and recursive descent parser in C; compiles to x86-64 assembly
- Created Boeing 777-300ER flight simulator in C++; downloaded by 50,000+ people. Received Boeing Scholarship

## TECHNICAL SKILLS

**Languages:** C, C++, C#, Python, Java, HTML, CSS, JavaScript, TypeScript, React, SQL, Dart

**Frameworks/Libraries:** PyTorch, TensorFlow, NodeJS, NextJS, Flask, MySQL, PostgreSQL, Flutter, LangChain

**Developer Tools:** Git, Docker, AWS (RDS, S3, EC2), VS Code, Visual Studio, Figma, Linux (Ubuntu)

**Relevant Coursework:** Operating Systems, Algorithm Design, Theoretical CS, Computer Vision ML,

Electromagnetics, x86 assembly, Statistics, Circuits

**Hackathons:** 3rd place of 220 teams at LA Hacks 2025, finalist (top 8 of 100 teams) at LA Tech Week 2024