Chaidhat Chaimongkol

(424) 535-9679 | chaimongkol@ucla.edu | linkedin.com/in/chaidhat | github.com/chaidhat

EDUCATION

University of California, Los Angeles — Los Angeles, CA
B.S. in Computer Engineering, Minor in Entrepreneurship — *Expected June 2026*
Honors: Dean's List (2x) | *Scholarships*: Boeing Scholarship (2023-24)

PROFESSIONAL EXPERIENCE

Engineering Trainee — Jul 2022 – Present
Scholarity Co., Ltd. — *Bangkok, Thailand*
- 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.

Undergraduate Researcher, Website Lead — May 2024 – Present
Di Carlo Lab — *Los Angeles, CA*
- Created Python-based front-end UI for a robotic digital PCR system, exhibted 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 — Mar 2025 – Present
Yijia Xiao Lab — *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 — Jul 2024 – Sep 2024
PTG Energy Group — *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 — Dec 2020 – Mar 2022
Department of Industrial Works — *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 — Sep 2023 - Jun 2024
CruX at UCLA — *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 — Feb 2023 - Mar 2024
Bruin Spacecraft Group at UCLA — *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 — Sep 2023 - Jan 2024
Rocket Project at UCLA — *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