

Nicole Phan

Software Engineer | UC Berkeley EECS

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About me

Motivated EECS student at the University of California, Berkeley with a strong foundation in software engineering, data systems, and computer architecture. Experienced in building full-stack applications, backend automation tools, and embedded logic designs. Passionate about systems security, scalable software, and clean code design.

Work Experience

Undergraduate Research Apprentice Program (URAP), UC Berkeley

February 2025 - May 2025

- Built and optimized data-processing pipelines to support ongoing research projects.
- Collaborated with interdisciplinary teams to integrate technical solutions into research workflows.

Engineering Shadowing, Tanium

January 2025

- Observed engineering teams building enterprise endpoint management and cybersecurity products.
- Gained exposure to large-scale system optimization and IT infrastructure security practices.

Software Engineering Intern, ESLearn – Frugal Innovation Hub, Santa Clara University

May 2023 - August 2023

- Led a team of 3 interns to develop and deploy a full-stack mobile application supporting immigrant communities.
- Architected core features using Dart and Flutter.
- Delivered a production-ready product within a three-month timeline.

Software Engineering Tutor, Ohlone College

January 2022 - May 2024

- Tutored 30+ students in C++, Python, Assembly, and Java.
- Debugged and optimized student code and guided lab projects.
- Taught programming fundamentals and data structure design.

President, Girls Who Code College Loop – Ohlone College

May 2022 - August 2023

- Founded and led a 5-member executive team to grow the chapter and host technical workshops.
- Advocated for women in tech and expanded peer mentorship opportunities.

Education

Bachelor of Science in Electrical Engineering and Computer Sciences (EECS)

*University of California, Berkeley
Expected Spring 2027*

Skills

- **Languages:** C++, Python, Java, C#, SQL, JavaScript, TypeScript, Dart
- **Frameworks:** .NET, React, Node.js, Flutter, Material-UI
- **Developer Tools & Concepts:** Git, REST APIs, Google Calendar API, Asynchronous Programming, Regex, Object-Oriented Design (OOD)

Projects

Coursework Aggregator

C#, .NET, REST APIs, Google Calendar API, JSON

- Developed an asynchronous C# application that aggregates coursework deadlines from multiple APIs.
- Automated Google Calendar updates to streamline academic scheduling.

CPU Design with Logisim

Logisim, RISC-V

- Designed and implemented a two-cycle pipelined processor from scratch.
- Built custom control logic and register files for MIPS instruction execution.

Calyber

Python, Pandas

- Engineered algorithmic optimizations for ride-sharing routes achieving 0.1s runtime efficiency.
- Ranked top-performing team in department-wide competition.

My-Travels

React, Tailwind CSS, JavaScript

- Designed a full-stack web app that compiles travel itineraries with restaurant and hotel recommendations.

Languages

- English: Fluent
- Burmese: Fluent

Interests

- Systems Security
- Algorithmic Problem Solving
- UI/UX Design
- Travel