

# Nicholas Oliver Pai

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[olpai.github.io](https://olpai.github.io)

## Education

2017–2021

2021–Present

Francis Parker School, San Diego, CA (Class of 2021 Valedictorian)  
University of California, Los Angeles, B.S., Computer Science  
(Degree expected 2025)

## Skillset

Java, JavaScript, C/C++  
HTML/CSS, JavaScript, React, Redux, Node.js, Material UI, Electron  
MySQL, PHP  
CLI, Git, GitHub  
Adobe CC (Premiere Pro, Lightroom)  
SOLIDWORKS CAD (Certified Associate, 2021)

## Experience

Qualcomm

2020–2021

### Wireless Research Intern

Consulted VP of Engineering to simulate the Wireless Research Division's workflow. Collected data and modeled indoor heat map of WiFi speeds. Analyzed impact of build material, router location, and infrastructure. Considered methods to improvise WiFi in undeveloped communities.

W.A.R. Lords Robotics Team

2017–2021

### Software & Design Training Lead

Wrote control systems code using Java and calculus-based PID theory. Tuned vision tracking software for Limelight camera system. Designed & modeled a two-stage gearbox and intake mechanism. Trained new members Java and SOLIDWORKS CAD.

The LEAGUE of Amazing Programmers

2017–2021

### Teaching Assistant

Introduced basic programming concepts and Java to 5 high school students of diverse socioeconomic backgrounds. Developed problem-solving and logic skills.

### Curriculum Development Intern

Developed materials for an FTC Robotics workshop. Migrated school's curriculum to an Open edX platform for increased accessibility by 800+ students. Consulted and reported findings to the lead teacher.

National History Day

2015–2021

### County Champion, State Finalist

Conducted research through online databases, research journals, libraries, and interviews with experts to support historical theses. Produced websites and documentaries. Defended theses during interviews with a panel of historians at competition.

### Francis Parker NHD Chapter President

Led club board meetings and oversaw various committees pertaining to the operations of the club. Coordinated research and project creation workshops. Ran mentorship program for NHD students across San Diego County.

## Honors

Member, California Scholarship Federation (2017–2021)  
Inductee, Cum Laude Society (2020)  
National AP Scholar Award (2020)  
Winner, San Diego Regional Hack-Atari Hackathon (2017)  
Winner, IEEE Sumobot Competition (2016)