

# Nicole Lee

(626) 673 9797 | [nicolelee1@berkeley.edu](mailto:nicolelee1@berkeley.edu) | [linkedin.com/in/nicolelee7887](https://www.linkedin.com/in/nicolelee7887) | [github.com/nnicolee](https://github.com/nnicolee)

## EDUCATION

### University of California, Berkeley

Berkeley, CA

*B.S. in Electrical Engineering and Computer Sciences, Minor in Physics*

*Aug. 2023 – May 2027*

- Regents' and Chancellor's Scholar - Awarded to the Top 1%
- **Courses:** Data Structures, Machine Structures, Designing Information Devices & Systems I&II, Structure & Interpretation of Computer Programs, Discrete Mathematics & Probability Theory

## EXPERIENCE

### Software Development Engineering Intern

May 2024 – Aug. 2024

*Amazon*

*Bellevue, WA*

- Supply Chain Optimization Technologies - Fulfillment Optimization
- Backend: Designed an API that auto blocks configuration changes on high traffic days
- Frontend: Implemented an MVC framework to allow users to auto-block on the internal dashboard
- Performed validations, integration/unit tests, improved existing APIs' efficiency
- Saved 6 weeks of manual work per year and prepares the system for scalability
- **Skills:** Java, Typescript, Javascript, Node.js, Git, Linux, DynamoDB databases, Unit Tests, Integration Tests

### Full-Stack Developer

Feb. 2024 – Present

*Web Development @ Berkeley*

*Berkeley, CA*

- **Skills:** React, Chakra UI, APIs, Postman, MongoDB, Docker

### Machine Learning Research Intern

Jan 2024 – May 2024

*Climformatics*

*Berkeley, CA*

- Engineered a Seq2Seq model which achieved a 95% accuracy rate in 6-hourly Heat Stress Index forecasts, significantly improving the predictiveness of climate impacts on energy demand and wildfire risks
- **Skills:** Artificial Intelligence, Google Colab, Python, NumPy, PyTorch, Scikit-learn

### AI Rover Embedded Systems Engineer

Sept. 2023 – Dec. 2023

*Space Technology At California*

*Berkeley, CA*

- Constructed circuits and components for radio transmitters/receivers and optimize power usage
- Define and implement communication protocols for data exchange
- **Skills:** Radio communication, Circuit Analysis, Circuit Design

### Website Developer/Finance Team

Sep. 2021 – Jul. 2023

*Code 4 Tomorrow*

*Virtual*

- Keep C4T's website up to date, organized/led finances and outreach; Taught 3,200+ students
- **Skills:** HTML, CSS, Javascript, Teaching, Design, Finance

### AI & ML Scholar

Jan 2022 – May 2022

*Amazon Web Services (AWS)*

*Virtual*

- Projects: Pre-trained image classifier to identify dog breeds, Image classifier
- Performed key techniques of neural networks, gradient descent, and backpropagation
- Built upon calculus and linear algebra applications
- **Skills:** Artificial Intelligence, Machine Learning, Python, NumPy, PyTorch

## PROJECTS

### Plant Diseases Image Classification | *Python, Tensorflow, Artificial Intelligence, Computer Vision*

Jul. 2021

- Developed a deep convolutional neural network that optimizes plant disease detection with 97% accuracy
- **Skills:** Classification, Regression, Neural Networks, Neural Nets for Classification, Learning Features, Deep Fakes, Reinforcement Learning, Vision and Language, Ethics, Search, Probabilistic Models

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Node.js, Flask, JUnit, WordPress

**Developer Tools:** Git, Docker, Google Cloud Platform, Firebase, IntelliJ, VS Code, Linux

**Libraries:** pandas, NumPy, Matplotlib, PyTorch, Tensorflow