

Nicole Lee

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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 2024 – May 2024

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