

Nithya Appannagaari

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EDUCATION

University of California, Berkeley *B.S. Electrical Engineering and Computer Science* May 2027

Relevant Coursework: Structure and Interpretation of Computer Programs, Designing Information Devices & Systems, Multivariable Calculus, Linear Algebra

Awards: NMSQT 2024 National Merit Scholarship Winner, Technovation 2023 Global Semifinalist, NCWIT 2023 AiC San Francisco Affiliate Winner and National Honorable Mention

WORK EXPERIENCE

Eric and Wendy Schmidt Center for Data Science & Environment (DSE) Berkeley, CA

Software Engineer Intern

Oct. 2024 –

- Built a Python app with Tkinter to classify 2,000+ wildlife images, integrating a dynamic classification cycle to automate directory creation, JSON-based session management, species-specific sorting, and reverse-classification for scalable data handling.
- Conducted statistical analysis using R and Python on classified images, providing data-driven insights for local biodiversity monitoring.

National Institute of Standards & Technology

Boulder, CO

Software Developer Intern

June 2023 – Aug. 2023

- Engineered a full-stack web app with Vue.js, Python, and TidyJS, optimizing chemical engineering data organization for government databases and improving analysis efficiency by 30%.
- Presented to 50+ NIST researchers and engineers at the poster ceremony, driving adoption and streamlining thermodynamic data workflows across national laboratories.

RESEARCH

Streets Lab

Berkeley, CA

Undergraduate Researcher

Oct. 2024 –

- Developing and fine-tuning large language models (LLMs) with LangChain to extract gene markers for various cell types, replicating and enhancing human interpretation of scientific literature.
- Building a DuckDB database of gene marker data and designing an API to facilitate efficient querying and enable streamlined access for research applications.

PROJECTS

SustainaStyle (Hackathon Project) [available on personal GitHub]

Cupertino, CA

Software Developer

July 2023

- Developed a React Native app with Python Flask to help users find sustainable clothing alternatives, promoting ethical consumption through a TensorFlow classification model.

Music.calm (Technovation Competition Project)

Cupertino, CA

Software Developer

Aug. 2022 - April 2023

- Developed a Swift iOS app to assist students with autism spectrum disorder in de-stressing through music therapy, integrating Firestore and iOS health queries.

LEADERSHIP & INVOLVEMENT

UC Berkeley Society of Women Engineers

Berkeley, CA

Public Relations Committee

Sept. 2024 -

- Creating and distributing promotional materials to engage over 200 members in opportunities to connect underrepresented with academic and industry mentors.

Monta Vista Technovation Club

Cupertino, CA

President

June 2022 - June 2024

- Founded and led 7 competitive app development teams, mentoring through project management and coding workshops in Java, Swift, XCode, and Android Studio.
- Organized community outreach events promoting STEM education among young girls in computer science.

Codenovate (501 ©3 nonprofit organization)

Cupertino, CA

President

June 2021 – Dec. 2023

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- Led and organized programming workshops on Python, app development, and robotics, impacting 500+ underrepresented students across 14+ libraries in the U.S. and Canada.

TECHNICAL SKILLS

Languages: Python, Java, Javascript, React, Swift, SQL

Tools/Libraries: Flask, NodeJS, RESTful API, DuckDB, SQLite, MongoDB, Firestore, Git, TensorFlow, Tkinter, LangChain