

Roy Lee

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EDUCATION

Diablo Valley College

A.S. in Computer Science — GPA 4.0

Pleasant Hill, CA

A.S. 2024, B.S. 2026

Georgia Institute of Technology

Relevant Coursework: Linear Algebra, Multivariable Calculus — GPA 4.0

Atlanta, GA

Aug. 2020 – May 2021

TECHNICAL SKILLS

Languages: Javascript/Typescript, Python, Go, C/C++, SQL, NoSQL, HTML/CSS

Technologies/Frameworks: React, Node.js, Express, Django, Docker, AWS, Nginx, TailwindCSS, React Native

Libraries: Pandas, NumPy, Matplotlib, Geopandas, Pytorch, Tensorflow, Selenium

EXPERIENCE

Undergraduate Research Assistant

Dec 2023 - Present

Relationships and Social Cognition Lab, UC Berkeley

Berkeley, CA

- Engaged in data analysis and methodology development, examining the influence of social network compositions on intellectual humility and political views.
- Contributed to a research project exploring the link between intellectual humility and political polarization, under the supervision of Dr. Ozlem Ayduk and graduate student Tyrone Sgambati.

Teaching Assistant: Structures and Interpretations of Computer Programs

Aug. 2023 - Present

Laney College

Oakland, CA

- Graded assignments, facilitated remedial programming workshops, and contributed to lectures, notably on Big O Notation. Helped write the final exam for the Fall 2023 session.

Data Analyst Intern

June 2021 – Jul. 2022

GERLoftin Wealth Advisors

Johns Creek, GA

- Developed Python scripts to backtest and enhance investment portfolios leveraging libraries such as yfinance, stockstats, and NumPy.
- Led a team of 4, producing a 20-page research report on fiber optic industry trends, validating findings via Monte Carlo simulations in Python.

PROJECTS

Internio | *NextJS, Django, Postgres, Redis, Celery, Docker, AWS, Nginx, Typescript*

Sep 2023 – Oct 2023

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- Created a web scraping application tracking over 1,000 internship opportunities and sends real-time email updates.
- Developed the backend using Django and Postgres for data storage and utilized Celery, Redis, and BeautifulSoup for asynchronous scraping.
- Dockerized and deployed on an AWS EC2 instance, with a reverse proxy server via Nginx to process HTTPS requests.
- Integrated the Clearbit API to extract company information and logos.

Bayborhood | *React, Jupyter Notebook, Mapbox, GIS, Data Visualization, Python, Javascript*

June 2023 - Aug 2023

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- Developed Bayborhood, a comprehensive platform allowing users to find their ideal neighborhood in San Francisco.
- Analyzed and integrated diverse datasets from external APIs, including crime rates, cost of living, and proximity to public transportation.
- Implemented user-friendly interface with intuitive filtering options, making neighborhood comparisons easy.

AWARDS

American Invitational Mathematics Examination: 2x AIME Qualifier (90th percentile of competitors)

M3 Math Modeling Competition: International Semi-Finalist (Top 12 out of 400+ teams)