

Roshni Davè

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EDUCATION

University of California, Los Angeles

Sep. 2024 - Dec. 2026

Bachelor of Science, Mathematics of Computation

- **Relevant Coursework:** Linear Algebra, Operating Systems, Real Analysis, Statistics, Discrete Structures
- **Awards:** OrigamiUSA International Scholarship, Pedersen Music Scholarship, F&C Lahm Transfer Scholarship

SKILLS

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

Technologies: Git, React, Next.js, Docker, AWS, Azure, SSH, Linux, Firebase, Wordpress, GCP

EXPERIENCE

Software Engineer Intern

Nov. 2023 — Jul. 2024

Access Ingenuity

San Francisco, CA

- Developed a project management tool to reduce company workload by 80 hours weekly. Automated remote file transfers to process and assign over 1,000 secure client files daily with OneDrive API and AES-256 encryption.
- Deployed software on AWS Fargate with EventBridge scheduling, secure access control, and logging.

Aviation Systems Data Science Intern

May 2022 — Mar. 2023

NASA Ames Research Center

Mountain View, CA

- Created data dashboards to assess sustainability of selected experimental NASA Ames aircraft models and biofuels.
- Processed and interpreted over 250 heterogeneous datasets to derive insights and generate over 20 interactive visualizations on fuel efficiency and aircraft performance. Presented research to Ames leadership.
- Overhauled Airspace Concepts Evaluation System (ACES) software website.

Web Developer & Administrator

Jan. 2023

North Bay Indo-American Association

San Francisco, CA

- Solely managed website redesign for a local nonprofit. Achieved a 90% reduction in monthly cost by migrating CMS to WordPress and Google Workspace for nonprofits.
- Optimized backend with database cleanup and server-side caching to reduce page load times by 30%.

PROJECTS

Lymphoma Tracker | *Machine Learning, Hugging Face Spaces, Gradio, Python, OpenCV*

Jun. 2023 – Present

- Tool to identify and track lesions for my weekly lymphoma treatments. Trained a supervised machine learning model on my own labeled data to detect lesions and built a web platform to easily count and visualize trends.

Cybersecurity Tools | *Bash Script, Linux, Python*

May 2023 – Present

- Miscellaneous security experiments: system monitoring, password security, etc.

Galaxy-O-Meter | *Java, Maven, Microsoft Azure, Sentiment Analysis*

Jul. 2024

- Created a sentiment analysis and visualization of tweets referencing recent Star Wars shows.

Wardrobe Tracker | *Streamlit, Data Analysis, Google Docs API, Python*

Jun. 2024 – Present

- Ongoing data project tracking daily outfits to gain insights on cost and usability.

Phishing Email Classifier | *Python, Machine Learning*

Dec. 2023

- Trained a machine learning model with logistic regression to identify phishing emails.

ACTIVITIES

Psi Beta Rho | Competing with UCLA's cybersecurity capture-the-flag division of Association for Computing Machinery

Bruin Chamber Musicians | Performing flute with a group of musicians at on-campus events and recitals

Bruin Origami | Teaching and folding origami for UCLA's Origami Club and the LA community

LA CTF 2025 | Creating marketing assets and managing outreach efforts for a student-run cybersecurity competition