

RADIN KHOSRAVIANI

CONTACT

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SKILLS

Languages: Python, Golang, JavaScript, Java, R, HTML/CSS, Bash/Shell

Machine Learning / Data: PyTorch, Pandas, Deep Learning, Exploratory Data Analysis, GANs, VQ-VAE/VQ-GAN, Adversarial ML (Data Poisoning Defense)

Web / Backend: Full-Stack Web Development, REST APIs, Tailwind CSS, Bootstrap, Redis

Tools / Systems: Git, Docker, Linux, Jupyter Notebooks, Google TPU Research Cloud, Figma, Raspberry Pi, Wireshark, VPNs, DNS, Reverse Proxies

CERTIFICATES

- COMPTIA ITF+ Certificate
- Google Cybersecurity Professional Certificate
- IBM AI Fundamentals Certificate
- PAAIA Civic Leadership Credential

LANGUAGES

English

Native or Bilingual

Persian

Native or Bilingual

Spanish

Professional Working

INTERESTS

Technology, skiing, biking, hardware, and gaming.

AWARDS

CyberPatriot Gold — National youth cybersecurity defense competition; identified and fixed security vulnerabilities in virtual operating systems during scored rounds.

Incoming UCLA Statistics and Data Science student with experience in machine learning, full-stack software development, and applied data analysis. Research assistant in Professor Gregory Pottie's UCLA Samueli School of Engineering lab and co-first author of PUREVQ-GAN, where I programmed, trained, and evaluated custom AI models for data-poisoning defense. Developed web applications and REST API services, and performed exploratory data analysis on real-world datasets. Seeking software, machine learning, or data-focused internship opportunities.

EDUCATION

Expected in June 2030

Bachelor of Science Statistics And Data Science

University of California, Los Angeles, Los Angeles, CA

Expected in June 2026

High School Diploma

University High School, Irvine, CA

- Awards: Award of Merit in Math, Award of Excellence in English, Magna Cum Laude
- GPA: 4.3 Weighted
- Completed 13 AP Courses
- Clubs: President and Website Developer of California Scholarship Federation club, Vice President of PC club, Treasurer of UC Berkeley ROAR competition club

Expected in June 2026

Dual Enrollment

Irvine Valley College, Irvine, CA

- Coursework: Introduction to Biotechnology, Spanish I, Spanish II, Introduction to Psychology, and Discrete Mathematics II
- GPA: 4.0 GPA

EXPERIENCE

August 2023 - Current

Machine Learning Researcher *UCLA Samueli School of Engineering — Pottie Research Lab*

- Co-first author of PUREVQ-GAN, a PyTorch-based defense against data-poisoning and backdoor attacks using a custom VQ-VAE/GAN architecture.
- Implemented model architecture, training, and purification pipeline; ran large-scale experiments on Google TPU Research Cloud with models up to 300M parameters, including ablations and hyperparameter sweeps. Formulated hypotheses and designed experiments for novel defense ideas.
- Produced publication-quality figures and tables and collaborated with UCLA and Caltech researchers in weekly reviewed under Dr. Omead Pooladzandi.

June 2025 - July 2025

Intern *Expert AI Consulting & CLAOC, Irvine, CA*

- Annotated clinical infant data from clinical collaborators to support machine-learning model development for Rekovar, a startup building a neonatal monitoring kit for infants with Neonatal Abstinence Syndrome (NAS).
- Worked with real-world healthcare data in an applied machine-learning setting under Dr. Erik Linstead.

August 2021 - Current

Software Developer *Kolbeh Farsi*

- Sole volunteer developer for kolbehfarsi.com and a companion religion/culture class site, designing and maintaining full-stack portals for registration, class resources, progress tracking, and interactive learning activities.
- Built and maintained Go backend services and REST APIs supporting student, parent, and teacher workflows; continue improving both platforms after graduating from the classes.

January 2023 - January 2026

Senior Mentor & Curriculum Developer *Computer Engineers of the Next Generation (CENG)*

- Taught JavaScript, Python, Java, web development, and AI / ChatGPT to students through a nonprofit serving underrepresented learners across multiple countries.
- Coordinated and supervised lead and regular teachers and organized day-to-day class operations as senior mentor.
- Designed the organization's ChatGPT course curriculum and interactive demos as curriculum developer.
- Taught hundreds of students over three years and helped spark interest in computer science through hands-on, beginner-friendly instruction.

January 2024 - Current

Team Lead and Club Co-Founder *University of California, Berkeley Robot Open Autonomous Racing (ROAR)*

- Won 1st place (Spring 2024) and 2nd place twice (Fall 2024, Spring 2025) in UC Berkeley's autonomous racing simulation competition.
- Programmed and tuned Python-based autonomous racing algorithms, co-founded a school ROAR club, and taught competition-relevant physics and computer science concepts in weekly meetings.
- Co-authored two invited technical blog posts on the team's winning solutions for the ROAR website.

PROJECTS

Sniffer Squared — AI-assisted network attack detection tool

- Built a cybersecurity tool to detect packet sniffing and analyze DNS / ARP spoofing and TLS / SSL fingerprints using Python, Go, Redis, JavaScript, and Jupyter Notebooks.
- Won 2nd place at CrackTheCode, winning \$10,000 in AWS credits.

Maps4Daps — Accessibility mapping web application

- Led a team in designing and building an accessibility-focused mapping web app to help users with disabilities better navigate public spaces.
- Won 1st place at KatyYouthHacks.

Astroguesser — Educational space geoguessing game

- Built a web-based game that teaches players about celestial objects through interactive guessing gameplay.
- Won Best Fitting at AstroHacks