HARSH DADHICH

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EDUCATION

University of California, Los Angeles — Expected 2026
Master of Engineering: Data Science — *Los Angeles, CA*
- **Coursework**: Large-Scale Machine Learning, Big Data Analytics, Reinforcement Learning, Product Management

University of California, Santa Cruz — Grad Spring 2025
Bachelor of Science: Computer Science — *Santa Cruz, CA*
- **Involvement**: Google DSC, GitHub Ambassador, Delta Sigma Pi – **Awards**: Dean's Honors, Chancellor's Internship
- **Coursework**: Data Structures & Algorithms, Computer Systems & Architecture, Applied Machine Learning, Functional Prog, Computer Networks, Web Applications, Probability, Discrete Math, Linear Algebra

SKILLS

Languages: Python, Java, C, C++, TypeScript, JavaScript, Bash, SQL, Haskell, HTML/CSS, LaTeX
Frameworks & Tools: Django, FastAPI, Flask, Gunicorn, BeautifulSoup; TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, Matplotlib; React.js, AngularJS, Next.js, Node.js, Bun, Tailwind; Git, Jira, Linear; Vercel, Postman, Figma
Cloud & DB: AWS (EC2, Lambda, Elastic Beanstalk, DynamoDB, S3), Google Cloud, Cloudflare (Workers, DNS, D1, KV), Docker, Linux (Debian), Terraform, Packer, Jenkins, jFrog, GitLab CI, GitHub Actions; PostgreSQL, Chroma, Pinecone
Concepts: Agile, Networking (TCP/IP, DNS, HTTPS), REST APIs, Microservices, CI/CD, Exploratory Data Analysis, RAG

WORK EXPERIENCE

Dento AI | *Software Engineer Intern* — Jan 2025 – Jun 2025
FiDi-based startup providing an AI-powered platform for dental professionals — *San Francisco, CA*
- Optimized consultation transcription latency by **35%** with cient-side audio streaming, achieving speeds $\leq$ **5s**
- Achieved a **22x** server-side speedup with bulk transcription processing through **Deepgram** and multi-threading
- Implemented a schema + database partitioning script in **Django/PostgreSQL**, cutting query latency by **40%**

Intuitive Surgical | *DevOps Engineer Intern* — Jun 2024 – Sep 2024
Industry leader in surgical robotics; AWS Operations Team under the Digital BU — *Sunnyvale, CA*
- Built reusable **Terraform** modules **reducing** setup time by **~90%** for AWS infra in multi-region environments
- Migrated CI/CD from Groovy/Java to GitLab CI YAML, streamlining security for an SDLC efficiency **increase of 60%**
- Trimmed manual release steps from **14 → 2** with **Packer** + Terraform CI for AMI building and blue-green rollouts

CITRIS and the Banatao Institute | *Data Scientist Intern* — May 2024 – Jul 2024
UC-wide research initiative; matched with host comany: Beyond the Arc — *Berkeley, CA*
- Benchmarking and developing LLM tests on a nuclear energy project for an AI/ML Analytics B2B company
- Engineered text mining pipeline using OpenAI's **Assistants API**, with **~92%** accuracy for content classification
- Accelerated regulatory document processing by **40%** by parallelizing scraping and calls to the Assistants API

UCSC Genomics Institute | *Undergraduate Research Assistant* — Apr 2024 – Dec 2024
Braingeneers Lab – experimentation with neural organoids; PI: Dr. Mircea Teodorescu — *Santa Cruz, CA*
- Mentored by Dr. Teodorescu to use **MEArec**, **matplotlib**, and **numpy** to simulate extracellular recordings
- Validated neural spike detection accuracy by comparing ground-truth neuron recordings with AI-sorted clusters, achieving **~95%** precision in identifying individual neuron activity patterns; more at braingeneers/MEArec
- Formulated schemas for an autonomous agent framework to execute IoT-based wet lab experiments with LLMs

PROJECTS

Movie Revenue Predictor – Neural Network Model Training | *Python, TensorFlow, Keras, Pandas* — June 2024
- Built a movie revenue predictor boosting stock model accuracy by **~28%** using feed-forward networks
- Engineered features (director success, actor frequency) and robust data preprocessing pipeline for 5k+ movies

round-nutrition – FDA Compliant Nutritional Rounding Package | *PyPI, Docker, GitHub Actions* — July 2022
- Shipped a package to round nutritional value data to meet federal standards and regulations (FDA, USDA, NDC)
- Received **20k+ downloads** from popular projects for use in nutritional interfaces and calculators

SlugTools – REST API for Aggregated University Data | *Flask, BeautifulSoup, Gunicorn, Cloudflare* — May 2022
- Deployed a RESTful API on parsed/scraped university data for course catalog, dining, and facility services
- Streamlined deployment and improved server resource usage by **20%** with CI/CD and periodic scraping