

Jai Parera

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EDUCATION

University of California, Los Angeles

Masters of Science in Computer Science

Los Angeles, CA

Sept. 2024 – Jun. 2025

University of California, Los Angeles

Bachelors of Science in Computer Science, 3.92 GPA

Los Angeles, CA

Sept. 2020 – Jun. 2024

EXPERIENCE

Security Engineer Intern

Smartsheet

Jun. 2023 – Sept. 2023

Bellevue, WA

- Designed and implemented an automated AWS cybersecurity response system to detect unusual EC2 activity
- Developed alerts for notable CloudTrail events, integrated real-time incident reporting with ServiceNow, and automated corrective measures including EC2 disablement and sandboxing.
- Implemented a commit verification system using Lambda and GitLab API to ensure AWS resource integrity from approved merge requests, enhancing code quality and traceability and ensuring government compliance

Research Assistant

Ozcan Research Group at UCLA

Oct. 2022 – Jun. 2023

Los Angeles, CA

- Researching applications of optical computing to encryption and privacy through physics simulations
- Trained a deep diffractive neural network using PyTorch to use destructive interference to discriminate against visual keys with under 80% similarity to truth key while leaving other keys untouched

Software Engineer Intern

Zest AI

Jun. 2022 – Sept. 2022

Burbank, CA

- Owned end-to-end software development and documentation of internal visualization tool in Python
- Built a data pipeline from Snowflake to AWS s3 buckets for loading millions of credit records
- Greatly reduced I/O time with parallelism and used caching with aggregating to decrease file size by 98%
- Designed a web app in Streamlit to enhance data monitoring, streamline data, and empower client interactions

Technology Consulting Intern

PwC

Jun. 2021 – Aug. 2021

Remote

- Collaborated on digital assistant development for major B2B enterprises, enhancing customer interactions.
- Optimized chatbot workflows, achieving a 70% boost in productivity by aligning with client objectives.
- Developed and trained extensive conversational patterns using cloud-based Azure NLP services
- Conducted in-depth analysis of user queries and fine-tuned backend for successful MVP demo deployment.

PROJECTS

Roundnet Ratings | *Python, Selenium, Pandas, Matplotlib, Trueskill, PyTorch, Git*

Jul. 2023 – Present

Scraped thousands of competitive Spikeball tournaments to estimate and visualize player skill levels over time

Dropper | *JavaScript, WebGL*

Oct. 2022 – Dec. 2022

Designed a 3D endless runner game with dynamic shaders, random obstacle generation, and custom collision physics

RISC-V CPU Simulator | *C++*

Oct. 2022 – Nov. 2022

Developed simulator that interprets and executes RISC-V instructions in a single-cycle process, incorporating data path and controller design for various instruction types

Loom (Hack on the Hill Winner) | *React, MongoDB, Express, Git*

Mar. 2022

Created a web app in 12 hours for collaborative storytelling with dynamic content and real-time updates.

GiggleMaps (LA Hacks Winner) | *Python, Networkx, Google Maps API, Git*

Mar. 2021

Built a route optimization tool using a novel distributed Dijkstra's approach for traffic and navigation simulation

TECHNICAL SKILLS

Languages: Python, C, C++, SQL (Postgres), JavaScript, HTML/CSS, Bash, Haskell, Lisp

Frameworks: React, Node.js, Streamlit, WebGL, MongoDB, Selenium

Developer Tools: Git, Docker, Terraform, Amazon Web Services, VS Code, Visual Studio

Libraries: PyTorch, pandas, NumPy, Matplotlib OpenMP, MPI, MapReduce, CUDA