Anish Pahilajani

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EDUCATION

UNIVERSITY OF CALIFORNIA SANTA CRUZ

Masters of Science (M.S) in Natural Language Processing (NLP) (graduating in Fall 2024)   Santa Clara, CA
- Relevant coursework: Deep Learning, NLP I, Data Science and Machine Learning

*Bachelors of Science (B.S) Honors in Computer Engineering, minor in Computer Science (**GPA: 3.78/4.0**)*   Santa Cruz, CA
- Relevant coursework: **Applied Machine Learning**, **Parallel Programming, Algorithms and Data structures**
- Awards: Dean's Honors: Winter 2022, Fall 2021, Spring 2021, Winter 2021, & Fall 2020
- Clubs: Santa Cruz AI, Tau Beta Pi (Engineering Honor Society), START (Student research)

WORK EXPERIENCE

University of California Santa Cruz   **April 2023 - September 2023**

Machine Learning Engineer
- Advanced AI model explainability through sentiment analysis within Large Language Models (LLMs), collaborating with researcher Leilani Gilpin at the University of California Santa Cruz.
- Improved model trustworthiness and transparency in AI applications by investigating LLM introspection, unveiling the decision-making processes underlying sentiment predictions.
- Enhanced the accuracy of LLM sentiment prediction by modifying open-source Fast Chat (LLM based on LLaMa) to perform sentiment analysis on 8,500 data points, contributing to cutting-edge research.

Amazon (Amazon Web Services)   **Jun 2022 – Sept 2022**

*Software Development Engineer Intern/*AWS Global Accelerator team   Seattle, WA
- Engineered the SIM Sleuth tool using **Object Oriented Design**, enhancing ticket mitigation with automated updates, graphs, & text data.
- Developed a Python Lambda function triggered by tickets, retrieving & updating information from **JSON** files in Amazon code base. This streamlined the ticket resolution process and improved efficiency.
- Leveraged CloudWatch for graph storage, Amazon S3 for data uploads, & unittest.mock library for API testing.
- Agile methodology & Scrum principles applied to enhance development processes.

Amazon (Amazon Web Services)   **Jun 2021 – Sept 2021**

*Software Development Engineer Intern/*AWS Global Accelerator team   Seattle, WA
- Designed & implemented Intuitive Packet Capture tool in GoLang, automating packet capture and analysis. This tool automated packet capture and analysis, streamlining the process.
- Orchestrated concurrent packet capture on multiple hosts, merged pcap files, & uploaded results to S3 bucket.
- Demonstrated proficiency in AWS S3 API, GoLang, & network protocols.

UC Santa Cruz (TA/Tutor for Parallel & Concurrent Programming, and intro to Python)   **Mar 2020 – June 2021**
- Assisted in teaching Concurrent & Parallel programming in C++ and Programming abstractions in Python at UC Santa Cruz.
- Conducted weekly office hours, providing valuable support to students by aiding them in debugging their code and explaining complex programming concepts in an easily understandable manner.

TECHNICAL PROJECTS

Software Engineering capstone project: Retyrn company   **Jan 2023 - June 2023 Palo Alto, CA**
- Led **backend web development** of an insurance claim filing web application using Python, FastAPI, & SQL.
- Collaborated with a team to design, implement, & deploy the application On AWS using EC2, S3, RDS, Docker

TECHNICAL SKILLS & FRAMEWORKS

Languages: Python (3 years), C (6 months), C++ (6 months), GO Lang (3 months), Java Script
Tools & Platforms: Linux OS, Scrum & Agile, Amazon Web Services (AWS), Git, Docker, PostgreSQL database.
Frameworks & Libraries: NumPy, Pandas, Scikit-learn, Tensorflow/Keras, PyTorch, FastAPI, SQLAlchemy