amir Rashi

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Education

University of California San Diego

San Diego, CA

DOUBLE B.S. MATH AND COMPUTER SCIENCE, CLASSICAL STUDIES MINOR | GPA: 3.98

Expected Graduation: June 2024

• Relevant Coursework: OS (in progress), Networking (in progress), Functional Programming (in progress), Deep Learning, Algorithms, Statistical NLP, Data Structures, Theory of Computation, Graph Theory, Statistics, Systems Programming, Differential Equations

Experience

Viasat SOFTWARE ENGINEERING INTERN Carlsbad, CA

June 2023 - September 2023

• TBD - Will singlehandedly save the company from macroeconomic conditions.

Computing for Social Good Lab at UCSD

San Diego, CA

August 2022 - Current

June - August 2021

STUDENT RESEARCHER

- Researching social media discourse of mental burnout and problem gambling w.r.t. lockdowns.
- · Analyzed trends using LDA topic analysis, augmented data, and experimenting with team applying natural language processing techniques.
- Explore and apply SOTA machine learning techniques to deal with real world data constraints.

Twitter Remote

QUALITY ENGINEERING INTERN September - December 2021 • Designed fault tolerant integration with testing framework that catalogues automated test results for manual testers.

· Used Java stream processing to aggregate test results in real time, enabling analytics on historical test results.

Crownpeak Remote

SOFTWARE ENGINEERING INTERN

- Improved revenue visibility by analyzing billions of customer records in AWS **Redshift** and presenting findings to CFO.
- · Automated CDN cache invalidation of deactivated trackers and worked on Google Ads deployment. · Reduced support load by writing documentation, simplifying UI, and adding self-serve tooltips to ASP.NET webapp.
- **Mercury Health** San Diego, CA

FULLSTACK INTERN April - June 2021

- Leveraged AWS Lambda to write serverless backend implementing AWS SNS SMS notifications, reducing hardware downtime >80%
- Streamlined Stripe payment user flow and improved user configurable settings.

Projects

Triton Unmanned Aerial Systems

Python

PROGRAMMER

Dec 2020 - Current

- Collaborating with team to design, build, and fly an unmanned aerial vehicle (UAV). Placed 5th place internationally.
- Building a 3D real time dynamic path planning system in Python using RRT*.
- Created robust testing framework to simulate and visualize generated paths.

Deep Neural Networks from Scratch

NumPy, PyTorch

- Wrote IBM machine translation; deep neural network (MLP) from scratch with no libraries for CIFAR-10.
- Use **PyTorch** to implement image captioner (LSTM+CNN) on CoCo; Fine tune BERT for Alexa intent classification.

File Compression Utility

FULLSTACK DEVELOPER

Implemented optimal prefix encoding file compression and decompression in C++ using Huffman coding.

Apr 2022

C++

Sept 2022

ACM Attendance Visualizer

React Sept-Dec 2020

Developed online dashboard for analyzing the organization's event attendance data, using D3, Express, React, and PostgreSQL.

• Defined schema, implemented protected backend data processing routes, and documented APIs using Postman %.

Community Coworking Server

Docker, Linux, Bash

DEVOPS LEAD

• Founded and maintain public server for video chat, file storage, messaging, and email.

2019 - Current

- Manage networking, automate Linux server's **Docker** services, maintain wiki, resolve Jira tickets, and overhauled backup processes.

Triton Schedule Scraper ()

Python, Tkinter, Selenium WebDriver

• Python script uses WebDriver and automatically scrapes UCSD course schedule to create an iCal file.

Oct 2020

• Created native GUI for the program using Python and Tkinter.

Xerox Award for Innovation and Information Technology

2019

Skills

Language Python, Java, C, C++, Rust, JavaScript, TypeScript, Bash, LATRX, MATLAB, R, Google Apps Script

Software PyTorch, React, SQL, AWS, Docker, Linux, Unity, Fusion 360, JUnit, Flask, pytest, Jest, ASP.NET, GDB, cProfile, Kubernetes