

Viraj Joshi

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EDUCATION

UT AUSTIN

BS IN COMPUTER SCIENCE

BS IN MATHEMATICS

Cum. GPA: 3.85 / 4.00

May 2022 | Austin, TX

Awards: GE STAR Scholarship

LINKS

github.com/Viraj-Joshi

viraj-joshi.github.io

COURSEWORK

GRADUATE

Deep Learning

Natural Language Processing

Online Learning

Operating Systems

Optimization

Reinforcement Learning

UNDERGRADUATE

Algorithms and Complexity

Artificial Intelligence

Applied Statistics

Data Structures

Differential Equations

Intro to Mathematical Statistics

Intro To Quantum Info. Sci. (Honors)

Intro To Stochastic Processes

Numerical Analysis

Partial Differential Equations

Predictive Analytics

SKILLS

PROGRAMMING

Python (PyTorch) • R • C++

• React • Java

PROGRAMS

SWE SUMMIT | CAPITAL ONE

May, 2019

CSSI-COURSERA | GOOGLE

May 2018 - Jan 2019

RESEARCH

UT LEARNING AGENTS LAB | GRADUATE RESEARCH ASSISTANT

Sept 2023 -

- Working with Prof. Peter Stone to accelerate multi-task reinforcement learning using Nvidia IsaacGym

UT CVC LAB | GRADUATE RESEARCH ASSISTANT

Jan 2022 - Aug. 2022

- Completed an independent study on prophet inequalities and robust statistics
- Researched "learning to learn" robust models with Professor Chandrajit Bajaj

EXPERIENCE

AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN | ALEXA AI

July 2021 - Oct. 2021

- Designed and implemented lasting functionality to aggregate metrics on localization of Alexa features leading to the deprecation of legacy processes and improving customer's ease of use
- Exposure to full end-to-end Amazon software development cycle with the creation of customer-facing UI wired to back-end APIs hosted on AWS Lambda
- Technologies Used:
 - Tech: Python (Backend), React / Javascript (Frontend), Enzyme / Jest / Pytest (Testing), Balsamiq (Wireframing)
 - AWS: API Gateway, DynamoDB, EC2, Lambda, Cloudwatch, CDK

CAPITAL ONE | DATA ENGINEERING INTERN

Jun 2020 - Aug. 2020

- Visualized and quantified Risk Control Assurance by building an ETL pipeline, Python-Flask microservice, and UI with directed graphs and metrics
- Utilized AWS (Neptune, Gremlin), Python, React, G6.js, Plotly.js, Jenkins, Scrum/Agile development
- Buy in/Interest from SVPs, VPs, Senior Directors, Directors

ANALYTICS ADVISORY GROUP, LLC | DATA SCIENCE INTERN

June 2019 - Aug 2019

- Augmented the ability to demo to multiple clients how our application on an Amazon Echo Show simplifies BI-related queries to their databases by automating the generation of realistic clinical data unique to each provider
- Accomplished through a web-app/RESTful API (React, MS SQL Stored Procedure, Express, Elastic Beanstalk)

PROJECTS

MLDS CLUB COMPETITIONS Jan. 2020 / Jan. 2021

- Ensembled supervised learning models and won 2nd and 3rd place at competitions hosted by the UT MLDS Club and Microsoft

PYSUPERTUXKART Aug 2022

- Won 3rd place in class tournament by creating an ice hockey agent as well as the OpenAI gym environment in PySuperTuxKart