

Aditya Rathod

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Fremont, CA / Richardson, TX

Education

The University of Texas at Dallas Richardson, TX
B.S. in Computer Science, 3.94/4.0 GPA Aug. 2019 – May 2023
Coursework: Data Structures/Algorithms, AP CS A (Java), Programming II (C++), Discrete Math I & II, Probability and Statistics for CS, Differential/Integral Calculus
Involvement: Research Officer @ UTD Association for Computing Machinery, Operations Coordinator @ UTD Artificial Intelligence Society

Work Experience

Software Developer Intern RealPage, Inc. May – Aug. 2020

- Built hybrid, cross-platform redesign of Leasing Tablet mobile app using React Native
- Implemented Leasing Tablet API in Spring Boot/Java, which was used to roll out novel ID verification feature to customers
- Gained an understanding of practices such as code review, agile software development, automated unit and integration testing
- Technologies used: JavaScript/TypeScript, React Native, Redux, Jest, Swift, Java, Postgres

Research Intern Center for Engineering Innovation, UT Dallas Aug. 2019 – Mar. 2020

- Working on environment infrastructure for AI novelty in Java and Python, as part of lab's participation in DARPA's SAIL-ON initiative
- Learned collaborative development using tools such as JIRA and GitHub
- Currently on hold due to COVID-19

Undergraduate Researcher Clark Summer Research Program, UT Dallas Jun. – Aug. 2019

- Built seq2seq LSTM model for abstractive news summarization in Keras/TensorFlow.
- Scraped and parsed novel dataset of 25k articles using Python Requests/BeautifulSoup
- Presented findings at poster symposium with department leaders and faculty in attendance

Skills

Full-Stack Web Development with React, Redux, NextJS, Node, Express, MongoDB, TypeScript
Hybrid Mobile Development with React Native and TypeScript
Python w/ Pandas, NumPy, Keras/TensorFlow, for data processing & analysis
Fundamentals of Machine Learning (Regression, Decision Trees, Neural Networks, CNNs)
Hands-on experience with Matlab/Octave, Java, C++, Linux

Projects

Accepted (ongoing) accepted.tech
Technologies used: React, Redux, Next.js, MongoDB, Express, NodeJS
Developing a platform connecting HS seniors to college students who have experience with the application process. Online survey of 600 students revealed intense interest in such a platform.

Liform Fall 2019 github.com/TheGradientGroup/liform-backend
Technologies used: React, Next.js, MongoDB, Python, Pandas, Flask
Led backend development for group. Built web application + backend to allow users to compare costs for medical treatments across multiple providers. Wrote ETL pipeline in Python to extract pricing data from spreadsheets and load into database.

Credit Card Fraud Detection Summer 2019 github.com/applecrazy/fraud-detection
Technologies used: Python, TensorFlow, Keras
Developed credit-card fraud detection classification model. Achieved 99.94% accuracy and learned how to deal with skewed data.

Awards

National Merit Scholar 2019 – 2023
Awarded to top 1% of 1.5 million graduating high school students in the US
Awarded full ride scholarship by The University of Texas at Dallas