Mayank Shouche

(832) 657-6858 | shouchem@utexas.edu | mayankshouche.com | github.com/mayankshouche

EDUCATION

Bachelor of Science, Computer Engineering, Expected May 2022
The University of Texas at Austin
Overall GPA: 3.82/4.00
Relevant Coursework: Algorithms, Software Engineering Lab, Data Science Principles & Lab, Concurrent and Distributed Systems, Operating Systems

SKILLS

Languages: C, C++, C#, Java, JavaScript, TypeScript, Python, CSS, HTML5, SQL
Technologies: React, Node.js, MongoDB, Jenkins, Docker, AWS, Azure, Git, Linux, sklearn, PyTorch
Concepts: Agile, Scrum, Kanban, Application Security, Software Testing

WORK EXPERIENCE

Roblox, Software Engineering Intern, June 2020 – August 2020
- Interning with Roblox's Infrastructure Security team
- Designing and building a new service for open-source code review and automated vulnerability management across Roblox

athenahealth, Software Engineering Intern, June 2020 – August 2020
- Worked as part of an Agile engineering team using Kanban/Scrum methodologies
- Decreased deploy time 10-15 minutes by integrating automated Cypress smoke testing into Jenkins builds
- Raised AWS CloudFront cache hit rate 10% by writing and deploying a Lambda@Edge with CloudFormation
- Resolved bugs in a React/TypeScript & Node.js app affecting users' telehealth experience

Sophos Group Inc., Software Engineering Intern, May 2019 – June 2020
- Designed, developed, and delivered a productivity extension suite for Allegro energy trading software
- Built front-end interfaces, database schema and APIs for the suite using C#, .NET web services, and SQL Server
- Presented productivity extension product to stakeholders and potential clients
- Addressed clients' business requirements by developing additional custom Allegro extensions

PROJECTS

Responsible AI Portal
- Worked with a team of 6 to design and implement full-stack features
- Designed and build React components as well as corresponding back-end Node.js code and MongoDB schema
- Mentored other devs who were new to the MERN stack

NLP Analysis of Political Tweets
- Generated a 500,000+ entry dataset by combining existing sources with Twitter API metadata
- Implemented algorithms for topic modeling of tweets (n-gram analysis, LDA) using sklearn and NLTK
- Classified tweets into political parties using BERT, achieving a max of 88% accuracy and 0.95 ROC-AUC

js-beautify ***(Open-Source Contributions)***
- Enhanced user experience on beautifier.io by building new UI features in jQuery and vanilla JavaScript
- Resolved bugs with new language features by adding parser rules to the Python and JS implementations
- Wrote unit and regression tests to ensure proper functionality of the tool in the future