

# Mayank Shouche

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## EDUCATION

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**Bachelor of Science, Computer Engineering, May 2022**

**The University of Texas at Austin**

Technical Core: Software Engineering and Design

Overall GPA: 3.83/4.00

**Relevant Coursework:** Algorithms, Software Design and Implementation 1 & 2, Probability and Random Processes, Software Engineering Lab, Data Science Principles & Lab

## WORK EXPERIENCE

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**Software Engineering Intern, [athenahealth](#), 06/2020 – 08/2020**

- 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 function
- Resolved user-facing bugs in a React/TypeScript & Node.js app, utilizing analytics from Azure and Prometheus

**Software Engineering Intern, [Sophos Group Inc.](#), 05/2019 – 06/2020**

- 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

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### [Blog Engine](#)

- Wrote a RESTful API with Node.js and Express, utilizing MongoDB as a data store, to deliver blog posts
- Utilized React with Bootstrap components to create a responsive front-end that fetched posts from the API

### [Pear Scripting Language](#)

- Designed the language grammar around popular languages, specifically JS, Python, and Go
- Built a scanner, AST generator, parser, and REPL interface, all based on the grammar, in Python

### [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

### **Auction Application**

- Designed and built a full stack auction app with a multi-threaded Java server and a JavaFX-based front-end
- Deployed the data store (a MySQL database) to AWS RDS and the server to an AWS EC2 instance
- Implemented secure authentication by hashing and salting user passwords

## SKILLS

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**Languages:** C++, C#, Java, JavaScript (ES6+), Python, CSS, HTML5, SQL

**Technologies:** React, Node.js, TypeScript, Webpack, MS SQL Server, Jenkins, Docker, AWS, Azure, Git, Linux

**Concepts:** Agile Methodologies, Scrum, Kanban, Software Testing