

Sudhir Venkat

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Education

University of Michigan - School of Literature, Science, and the Arts

Ann Arbor, MI

Bachelor of Science in Computer Science; Minor in Entrepreneurship

August 2020 - April 2024

- **GPA:** 3.6/4.0
- **Relevant Coursework:** Programming and Intro to Data Structures, Discrete Math, Data Structures and Algorithms, Intro to Computer Organization, Foundations of Computer Science, Web Systems, Introduction to AI, Mobile App Development
- **Awards:** Michigan Competitive Scholarship

Work Experience

Nextworld

Greenwood Village, CO

Software Engineer Intern

June 2023 - August 2023

- Developed and implemented 2 innovative list lookup features for an enterprise software development platform using Angular, enhancing the platform's customizability and providing essential functionality for over 50 in-house app developers
- Refactored over 2000 lines of a key platform component, which is utilized in approximately 70% of applications, into a shared service. Ultimately resulted in reduced code duplication and increased maintainability, performance, and reusability of the code
- Wrote over 100 unit tests, contributing to a substantial increase in test coverage across modified files in the codebase from as low as 60% up to a perfect 100%, ensuring robust software quality and reducing or eliminating potential bugs from legacy code

Lear Corporation

Southfield, MI

Software Engineer Intern

March 2022 - August 2022

- Conducted diligent research and development in order to identify and resolve a major file extraction bug in complex C++ legacy code, allowing over 120 in-house users to regain significant platform functionality and maximize their productivity
- Delivered over 30 tickets towards configuring an off-the-shelf project management software, ultimately assisting in the delivery of a software the seating and e-systems divisions use to advance high-value projects towards on time completion
- Designed and implemented 2 automated protocols for data downloads and uploads using Python, streamlining data management processes and increasing the efficiency of tasks that were once time-consuming manual operations
- Led a 12-person intern team in researching options for the company to retain talented young employees. Presented identified strategies to stakeholders on how the company could attract and retain young talent, remaining competitive in the market

Projects

Instagram Clone(React, JavaScript, Python, SQL, HTML, CSS, AWS)

- Created a responsive interface using JS and React, implementing features such as login, post interactions, and user accounts
- Utilized Python libraries such as Flask and SQLite to develop a REST API to interface with our SQL database
- Hosted the website using AWS and leveraged their EC2 service along with Unicorn and Nginx services

College Database(Java, SQL, HTML)

- Designed and developed a SQL database that allows for password protected entries regarding student information to be created, stored, and modified from a website running on Apache and utilizing a JDBC connection to the database
- Wrote Java functions that provided help prompts to users in cases such as incorrect login info or duplicate student profiles

Pomodoro Timer Chrome Extension(JavaScript, HTML, CSS)

- Created a Pomodoro Timer in JavaScript, allowing users to efficiently manage work and break intervals, resulting in improved focus and productivity. Designed a clean interface with reduced visual noise to improve upon existing extensions
- Optimized the algorithms to run seamlessly in the background to handle keeping time and emitting pop ups when needed
- Enhanced the extension's performance to ensure minimal resource usage and utmost responsiveness during timer operation

Technical Skills

- **Programming Languages:**
 - Proficient: Java, C, C++, Python, R
 - Experienced: TypeScript, JavaScript, Angular, React, HTML, CSS, SQL, LaTeX, Twig
- **Other Skills:** Git, Jenkins, SonarCloud, Agile Methodology, Siemens Teamcenter, AWS, MS Sharepoint, MS Office