Viraj Sule

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EDUCATION

University of Wisconsin-Madison | B.S. in Computer Science and Data Science Aug.2020 - Dec. 2023
- Relevant Coursework **(GPA: 3.7)**: Programming III **(Java)**, Data Programming II **(Python)**, Data Modeling II **(R)**, Algorithms, Artificial Intelligence, Operating Systems **(C)**, Database Management Systems **(C++, SQL)**, Building User Interfaces **(React, Bootstrap, JS)**

EXPERIENCE

Software Engineer May 2024 - Present
Epic Systems | Verona, WI

- Designed and implemented new reporting data models and migrations for compliance to industry regulations
- Optimized SQL query performance by 34% in various financial risk, cost, and utilization reports, increasing efficiency for analysts and providers as well as increasing maintainability of these queries internally **(SQL, MUMPS)**
- Architected new workflows for users by developing new reports and views that would allow for further analysis and investigation into certain populations that were decided on via thorough investigation with various customers/users **(TypeScript, React, C#, SQL)**
- Organized triage for all fixes and code review throughout the team to meet fix deadlines and be aware of overall team bandwidth

Software Engineer, Intern May 2023 - Aug. 2023
Epic Systems | Verona, WI

- Designed and developed a shared, trackable task list to be implemented in Hyperspace within the Handoff tool
- Streamlined physicians' documentation within Handoff through a new task list that allows users to efficiently view, manage, and track different patient/service-related tasks in one clean space **(TypeScript, React, C#)**

Software Engineer, Intern May 2022 - Aug. 2022
PlayStation | Madison, WI

- Delivered key features of the PS Direct website's web checkout as part of a short-cycle, agile, iterative development scrum team
- Implemented user accessibility features that allowed the PD Direct website to serve disabled customers better **(React, Jest)**
- Supported the addition of new features to the PS Direct website, such as pre-order and order modification, through development related to the web checkout cart **(React, GraphQL)**

Data Science Engineer, Intern May 2021 - Sept. 2021
Surus | Lake Bluff, IL

- Enabled the company to increase its reach by creating tools that allow for efficient and effortless presentation of client-related data to other potential customers **(Python, AWS, Tableau)**
- Automated the transfer of essential client-related data from the company's Postgres Database to Tableau so clients could see regularly updated data and analytics **(Python, AWS)**
- Resolved critical issues in state and county shapefile data by using data visualization software to correct missing or incorrect precincts in each of Illinois' 102 counties **(QGIS, Tableau, Python)**
- Standardized numerous data files consisting of millions of entries given by the Illinois State Board of Election by developing scripts to organize, analyze, and transform each data file **(Python, R)**

Software Engineer, Intern May 2018 - Aug. 2018
Viva USA | Rolling Meadows, IL

- Initiated the full-stack development of an Android app that searched through a database of companies and displayed them for contractors to view openings for any company **(Java, MySQL, Android)**
- Expedited the job search process for multiple contractors at the company through the utilization of the app

PROJECTS

CompSci Classroom | Lead Developer | https://github.com/virajsule12/CSC

CompSci Classroom supplies computer science teachers with a learning management system solely dedicated to computer science, enabling teachers and students to view and manage all programming assignments in an organized space.

Key Accomplishments:
- Developed an interactive, stable back end that stored, accessed, and manipulated data as well as executed and analyzed code that students wrote inside of the web app **(NodeJS, Javascript, MySQL)**
- Designed, constructed, and managed a database consisting of all relevant data **(MySQL)**
- Built an intuitive, organized front end to increase accessibility to each page of the web app **(Bootstrap, HTML, CSS)**
- Guaranteed high availability of application by hosting services on cloud providers **(Digital Ocean, Azure)**
- Integrated a personal development environment into the web app for students to write code from within the app itself

AWARDS

- 1st Place in IL for SQL Database Fundamentals | Business Professionals of America | Earned 2020
- Dean's list | Earned 2021, 2022
- National Merit Scholar | Earned 2019

SKILLS

Python | Java | R | Javascript | C | C# | C++ | TypeScript | HTML | CSS | SQL | NodeJS | ReactJS | Android Dev | AWS | Agile