Arun Jayaraman

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SUMMARY

Mathematics and Computer Science senior with experience working with and leading teams to meet goals. Demonstrated ability to use scripting languages such as Python and Bash to automate processes, languages like SQL and R for data analysis, as well as front-end languages including React and Typescript.

EDUCATION

University: Wayne State University   **Expected Graduation Date:** Aug 2022
Majors: BS in Math & BS in Computer Science   **GPA:** 3.96

RELEVANT COURSEWORK

Calculus III, Differential Equations, Linear Algebra, Java Programming, Real Analysis, Probability Theory, Software Engineering, Theoretical Computer Science, Computer Architecture, Game Programming, Statistical Computing & Data Analysis with R, Numerical Methods, Design & Analysis of Algorithms, Artificial Intelligence 1

SKILLS

- *Tech Stacks and Skills*: C++, Python, R, Bash, Java, SQL, C#, HTML/CSS/JS, React.js, ROS
- *Other Resources*: Git/GitHub, Blender 3D, Unity, LaTeX, Gazebo, RViz

EXPERIENCE

- Teaching Assistant for Computer Science under WSU (01/2022 – Present):
  - Lead lab sections that total 60 students to instruct and assist them in completing lab assignments in C++
  - Organize meetings with graders and other assistants to develop new teaching plans and improve the learning experience for students
- Summer Tech Coach under Microsoft, Quicken Loans, and WSU (06/2020 – 09/2020):
  - Guided high school students in Detroit Public Schools in a 6-week program towards constructing a program oriented around stock data manipulation in Python
  - Worked in a team with 6 other coaches to coordinate meetings and organize professional development workshops for the students

ACTIVITIES/AWARDS

- Dean's List, Wayne State University (Fall 2019 – Fall 2021)
- Winner of Wayne State's Math Departmental Scholarship (Winter 2020)

SIDE PROJECTS

- *College Class Scheduler*:
  - Constructed a program to maximize the number of college classes for a schedule without time conflicts
  - Initially prototyped in Python with Tkinter library and a second version was later developed using React.js, Typescript, and SASS
- *Comic Book Downloader:*
  - Coded a web-scraping script that extracts the image files of an online comic book without ads and compiles them into a PDF to be stored on my local computer.
  - Implemented in Python using the BeautifulSoup library along with other file-handling libraries