HASSAAN ALI WATTOO

⬦ Seattle, WA — Open to Remote

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OBJECTIVE

Software Engineer with 2+ years of experience at Microsoft, specializing in backend development and performance improvements for scalable data services. I place great emphasis on technical fundamentals and operational excellence in order to keep services up and always available.

EDUCATION

Bachelors of Engineering, University of Michigan   2017 - 2021
Relevant Coursework: Algorithms, Web Systems, Operating Systems, Search Engine Design
GPA: 3.63

SKILLS

- Programming Languages: C#, C++, Python, Javascript
- Web Development: HTML/CSS, React, Flask, Django, Express
- Testing and Deployment: XUnit Testing, Azure Load Testing, JMeter
- Scripting: Bash, PowerShell

EXPERIENCE

Software Engineer   Aug 2021 - Present
Microsoft   *Seattle, WA*

- Took over a failing analytics pipeline, and reduced job failure rate by over 45%. Decreased data latency from the order of days to hours. This led to a cost reduction of several thousands of dollars, and enabled executives to make financial decisions more accurately and quickly.
- Led research, design and development for the core data model used by a brand new Microsoft service.
- Developed a data simulator, allowing us to simulate data being streamed by thousands of users, tailored to customer scenarios. Resulted in several high impact performance issues being profiled and resolved before release.
- Developed scalable real-time business alerting system using PowerAutomate, reducing incident detection time for customers, thereby enhancing their ability to take swift action.
- Addressed code quality issues by introducing end-to-end XUnit testing suite for the core service API, resulting in over 98% coverage for all customer scenarios and greatly reducing reported customer issues.

Managing Web Developer   Nov 2018 - Jan 2020
The Michigan Daily   *Ann Arbor, MI*

- Responsible for ideating new projects, managing existing products, and coordinating a SCRUM team of 25 designers and developers.
- Created and released GradeGuide, a grade distribution visualizer. Recieved 100,000+ visits in its first year.
- Led the development and release of a React Native mobile app to deliver Michigan Daily news to iOS devices.

PROJECTS

GradeGuide

- Built the first Grade Distribution visualizer for University of Michigan to aid students in choosing courses.
- Created Flask API and MySQL Database structure, focusing on speed optimization and caching of responses.
- Led marketing efforts and user studies to maximize user interaction. Drove over 100,000 uses in a calendar year.
- Developed frontend search system and course grade visualisations in ReactJS and D3.js.