Hassaan Wattoo

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EDUCATION

University of Michigan - Ann Arbor *2017 - 2021*

Bachelor of Engineering in Computer Science, *GPA: 3.61*
College of Engineering Deans Honor List

Relevant Coursework
- **Engineering** - Data Structures and Algorithms, Web Systems, Operating Systems, Search Engine Design

WORK EXPERIENCE

Software Engineer - *Microsoft*

August 2021 - Present

- Developed real-time business alerting that provided customers configurable and actionable alerts with minimal delay.
- Implemented a customizable framework using PowerAutomate for deploying alert delivery templates that customers could modify according to their business needs.
- Wrote a new suite of internal alerts surrounding customer outages that cut down average incident detection and investigation time from days to hours.
- Designed and implemented the extensible common data model in C# used by the M365 Frontline Worker API.
- Introduced an end-to-end testing suite for the core API, achieving $> 98\%$ coverage for all customer scenarios.

Teaching Assistant - *University of Michigan EECS*

August 2019 - April 2021

- Instructional aide for EECS 485: Web Systems, a wholistic course of modern web systems.
- Led a lab discussion session, developed class projects for developing scalable web applications.
- Taught content about developing scalable ReactJS frontends, Python APIs and Hadoop data processing pipelines.

Managing Developer - *The Michigan Daily*

November 2018 - January 2020

- 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.
- Designed overhaul of main website by conducting user surveys, creating mock ups and delivering a proposal.

SKILLS

Languages: C#, C++, Python, Javascript, GoLang, MySQL, HTML/CSS, Bash
Tools and Frameworks: React, Flask, Django, XUnit Testing, Azure, Express

PROJECTS

GradeGuide

January 2018 - December 2020

- Developed backend and frontend for a grade distribution visualizer for courses at the University of Michigan.
- 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.

ElectionAudits

May 2019 - August 2019

- Developed a web application developed to assist election officials in verifying the results of elections
- Served as the main developer for this application, implemented brand new election audit systems in Python and ReactJS.
- Updated and rewrote existing code to match modern standards, added unit tests and updated documentation.
- Tested system at real world pilot audits in Michigan.

ADDITIONAL INFORMATION

Spoken Languages - English, Hindi, Urdu