

Yash Sharma

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EDUCATION

MICHIGAN STATE UNIVERSITY

BS IN COMPUTER SCIENCE

Aug 2016 - Dec 2020

East Lansing, MI

Minor in Cognitive Science

& Philosophy

College of Engineering

Cum. GPA: 3.34 / 4.0

LINKS

GitHub:// [yash1337](#)

LinkedIn:// [tellsharmayash](#)

COURSEWORK

GRADUATE

- Distributed Systems
- Graph Theory

UNDERGRADUATE

- Operating Systems
- Computer Networks
- Compilers

SKILLS

PROGRAMMING

C# • Powershell • Python •
KQL • C++ • Docker

PROFESSIONAL SUMMARY

Software Engineer with nearly 4 years at Microsoft focused on building secure, compliant systems and internal tooling in Azure. Skilled in C#, PowerShell, Azure DevOps, Docker, and Python with experience in internal tool development and automating compliance processes. Enthusiastic learner, open to new technologies, and dedicated to team collaboration and mentorship.

EXPERIENCE

SOFTWARE ENGINEER | MICROSOFT

- Azure Engineering System | April 2021 – February 2025 | Redmond, WA
 - Partnered with compliance teams to integrate automated compliance checks into the new **YAML** based build system, ensuring adherence to Executive Order standards.
 - Enabled Windows and Azure products to be secure and Executive Order compliant by developing and onboarding them to the new **YAML** based build system in **Azure DevOps**
 - Partnered with Windows Build teams to log compliance in Windows builds by leveraging **Azure Data Factory** for automated log collection and aggregation.
 - Tracked Executive Order compliance in Windows code base by creating **Power BI** dashboards integrated with version control, while utilizing **Kusto** for advanced analytics.
 - Managed custom build containers with streamlined validation and deployment processes to enhance the customer build experience.
 - Authored internal tools to increase security and reliability in the build systems using **C#** and **Powershell**.
 - Conducted regular knowledge-sharing sessions to enhance team learning and skill development
 - Improved live site health by updating documentation and participating in on-call rotation

INTERNSHIP | MICROSOFT

- Azure Engineering System | May 2020 – Aug 2020 | Redmond, WA
 - Created an internal-facing tool to compare builds from different build systems in **C#**
 - Improved the reliability of the new build system by creating a differentiation algorithm for builds
 - Helped improve technical documentation for the newer build system
 - Created documentation for easy onboarding for future hires and interns to the team
- Microsoft Excel for the Web | May 2019 – Aug 2019 | Redmond, WA
 - Implemented user-facing features for Microsoft Excel for the Web by writing tests and showing a demo at the end of the internship
 - Used various full-stack technologies such as **C++**, **C#**, **HTML**, **CSS**
 - Helped improve technical documentation for Excel for the Web, Excel Native apps, and Excel Mobile apps teams by reading through older team Q&As
 - Created documentation for easy onboarding for future hires and interns to the team

TEACHING ASSISTANT | DEPT. OF COMPUTER SCIENCE AND ENGINEERING

- CSE 480 (Database Systems) | Jan 2019 – May 2019 | East Lansing, MI
 - Helped create homework assignments that tested database concepts for 200+ students.
 - Held consulting and office hours weekly, assisting students with specific difficulties in class and projects.
- CSE 231 (Python Programming) | Aug 2017 – May 2020 | East Lansing, MI
 - Solely responsible for a section of 22 students in a weekly laboratory focusing on Python programming.
 - Graded weekly projects that tested and expanded students' ability to design and implement algorithms in Python.

PROJECTS

SPARTAHACK API | GitHub Link

June 2018 – June 2019

Lead a team of 3 web developers to port the existing SpartaHack API from **Ruby on Rails** to **Python**. The API serves as an endpoint for user registration, authentication, and application processing as well as managing content for mobile applications and websites regardless of their tool stack. The API uses **Flask** to handle routing and **Postgress** as a database to store user data. **SQLAlchemy** used as an ORM to interact with the database. Updated the API to incorporate **OAuth** for SpartaHack VI.