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 4 years at Microsoft. Worked on large scale engineering solutions for Azure and Windows. Developed compliant build pipeline systems at scale for 10,000+ repositories and 65,000+ developers at Microsoft. Skilled in C, .Net, Azure, PowerShell, AzureDevOps, Docker and Python. Enthusiastic learner, open to new technologies, and dedicated to building inclusive and productive teams.

EXPERIENCE
SOFTWARE ENGINEER | MICROSOFT
- Azure Engineering System | April 2021 – February 2025 | Redmond, WA
  - High scale **YAML pipeline system** supporting **10,000+** production repositories and **65,000+** developers at Microsoft
  - Automated compliance checks in YAML and **AzureDevOps** ensuring adherence to Executive Order compliance
  - Leveraged **Azure Data Factory** for automated log collection and aggregation. Leveraged **Azure Data Explorer / Kusto** for advanced data analytics, and creating Compliance adherence dashboards in **Power BI**
  - Automated build container and image validation. Created several internal tools in **C#**, **.Net**, **PowerShell** to support Pipeline features
  - Helped build strong teams with knowledge sharing sessions, documentation, participation in live site and on-call rotations.

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

- 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

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
Ported 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.

LEADERSHIP
SPARTAHACK 2019, 2020 | Website
Feb 2018 – August 2020
As a **Co-Director** for SpartaHack 2020, managed and helped a team of 18 members. Was personally responsible for overseeing teams responsible for Tech, Logistics, and Marketing to facilitate the smooth execution of the event. Also implemented Gavel, HackMIT's project expo judging system, to facilitate judging for the hackathon projects.