

Yash Sharma

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Education

Michigan State University

B.S. in Computer Science, GPA: 3.347/4.0

Minor in Cognitive Science & Philosophy

East Lansing, MI

2016–2020

Experience

Microsoft

Redmond, WA

Software Engineer: Azure Engineering Systems

Apr 2021–Feb 2025

- Developed YAML-based CI/CD pipelines supporting over 10,000 repositories and 65,000 developers.
- Automated EO compliance checks, using Azure Data Factory, Azure Data Explorer (Kusto), and Power BI for real-time dashboards.
- Built internal tools with C#, .NET, and PowerShell for pipeline validation, security enhancements, and automated diagnostics.
- Enhanced on-call practices, documentation standards, and knowledge sharing within teams.
- Owned container validation strategy improving build reliability.

Microsoft

Redmond, WA

Software Engineering Intern: Azure Engineering Systems

May–Aug 2020

- Developed a differentiation tool in C# to compare legacy and new build systems.
- Enhanced reliability of build systems through automated diagnostics and rigorous testing.
- Created onboarding documentation and contributed to team knowledge base.

Microsoft

Redmond, WA

Software Engineering Intern: Excel for the Web

May–Aug 2019

- Implemented user-facing features in Excel Online using C++, C#, HTML, CSS.
- Improved team documentation and onboarding resources significantly.
- Participated in Microsoft's Hackathon with an AR productivity project utilizing Hololens technology.

MSU Infrastructure Planning & Facilities

East Lansing, MI

Information Technician/System Administrator

Oct 2016–Aug 2017

- Managed Windows 10 upgrade and SQL-backed inventory systems.
- Created Python scripts for automating systems inventory data updates for over 500 employees.
- Provided technical support across hardware, software, and network issues.

Teaching Experience

CSE 231, MSU

East Lansing, MI

Teaching Assistant (Python Programming)

Aug 2017–May 2020

- Solely responsible for a section of 22 students in a weekly laboratory focusing on an individual OOP concept in Python.
- Graded weekly projects that test and expand student's ability to design and implement algorithms in Python.
- Held consulting & office hours weekly, assisting students with specific difficulties in class and projects.

CSE 232, MSU

East Lansing, MI

Teaching Assistant (C++ Programming)

Jan 2020–May 2020

- Solely responsible for a section of 22 students in a weekly laboratory focusing on an individual OOP concept in C++.
- Graded weekly projects that test and expand student's ability to design and implement algorithms in C++.
- Held consulting & office hours weekly, assisting students with specific difficulties in class and projects.

CSE 480, MSU

Teaching Assistant (Database Systems)

- Created database assignments and assessments for over 200 students.
- Conducted weekly office hours, tutorials, and assisted students in database design.

East Lansing, MI

Jan–May 2019

Projects

SpartaHack API:

- 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.
- The API uses Flask to handle routing and Postgres as a database to store user data.

#BIKES4ERP Tracking Initiative:

- Contributed to a multi-platform solution enabling teachers, mechanics, and administrators to track bike fleets, submit maintenance requests, manage inventory, and analyze performance data.
- Developed and maintained the Firebase backend for reliable data storage and synchronization in low-connectivity environments.
- Built and optimized the ERP administrators' ReactJS dashboard for actionable fleet analytics.

Leadership

Michigan State University

SpartaHack Organizing Committee

2018–2020

- **Co-Director (2020):** Managed an 18-person team across Tech, Logistics, and Marketing; led successful virtual hackathon hosting hundreds of participants.
- **Tech Director (2019):** Managed hackathon infrastructure, implemented HackMIT's judging system, and ensured smooth event operations.
- **Lead Developer (2018-19):** Directed mobile application transition to React Native, significantly enhancing participant engagement.

MSU Residential and Hospitality Services

Resident Assistant

2018–2020

- Assisted students with transition into college life.
- Built a welcoming residential community where every student could feel safe and have open exchange of ideas and thoughts with other members of the society.
- Created a supportive environment for social, mental and academic success.

Relevant Coursework

Graduate: Distributed Systems, Algorithmic Graph Theory

Undergraduate: Operating Systems, Computer Networks, Algorithms, Compilers, Artificial Intelligence, Software Design, Computer Architecture, Probability & Statistics

Technical Skills

Languages: Python, C++, C, C#, Java, SQL, Bash/Shell, KQL, PowerShell

Technologies: Azure, Azure DevOps, Azure Data Factory, PowerBI, Docker, Flask, ReactJS, GIT, OAuth