Shivam Gupta

shivamguptausa@yahoo.com | 518-902-9786 | https://www.linkedin.com/in/shivamgupta1331 | https://shivam-gupta123.github.io

EDUCATION

The Ohio State University

Honors B.S. Computer Science and Engineering | Minor in Business | Minor in Mathematics   **GPA: 4.0**   *May 2026*

SKILLS

- Tech Frameworks: Java, Python, JavaScript, CSS, React.js, C/C++, C#, ASP.NET, Razor/Blazor, Ruby/Rails, IaC, SQL, Agile.
- Relevant Coursework: **Software Development (TA – Software II)**, Operating Systems, Distributed Systems, Algorithms, Database Systems (SQL/NoSQL), Computer Networks, Cloud Computing & DevOps (Azure), SDLC, Security (AppSec), AI & Machine Learning, Parallel & Concurrent Programming, Software Testing & Verification.
- Software: Oracle VM, MS SSMS, Visual Studio, MS Azure, MS Teams, AWS, Docker, Git/GitHub, Azure DevOps, Terraform.

WORK EXPERIENCE

Software Engineer Intern: *Marathon Petroleum Corporation*   *May 2025 – August 2025*
- Instrumented 10 apps across 25 environments with Azure Application Insights, developing in C# .NET alongside cloud technologies.
- Diagnosed Azure DevOps pipeline failures, remediated package/version drift, restored healthy deployments across dev/test/prod.

Software Engineer Intern: *Iris Finance*   *July 2024 – August 2024*
- Validated and optimized the Bing Ads Airbyte connector, integrating ad performance data into ELT pipelines.
- Leveraged Airbyte's Low-code SDK to build with Python and optimize key source connectors, streamlining API data flows and boosting data sync efficiency by 30%.

Teaching Assistant: *Software II*   *August 2023 - Present*
- Assisting professors such as Paolo Bucci and Rob LaTour instruct the class and teach challenging concepts.
- Training 40 students regularly throughout the week on how to improve their skills as a thinker and software developer.
- Facilitating the testing of 10 different software projects per semester and holding review sessions through office hours.

Behavior Anomaly Detection Researcher   *May 2023 – August 2023*
- Conducted research under Professor Alper Yilmaz that coupled Python with AI facial and joint tracking software.
- Data from facial recognition allowed analysis of possibilities that someone could be suffering with an ischemic stroke.

SOFTWARE PROJECTS

AzureFlash   *August 2025*
- Created an automated alerting mechanism using Azure Monitoring and KQL queries to immediately alert business owners of dangerous events happening in their applications such as server outages, low availability, or high failed requests.
- Crafted 25 pages of enterprise-grade documentation explaining the development, implementation, and use cases of the mechanism.

MPC Mission Possible   *July 2025*
- Led a 4-engineer hackathon team to design and deliver a **Drone and Robotics Mission Management System** - from concept to MVP in 2.5 days – covering mission intake, pilot/asset assignment, scheduling, and live status/analytics.
- Built a C# .NET application with clean, modular architecture and practices that could be adopted by business units at MPC.

Corrosion Compliance Dashboard (CCD)   *June 2025*
- Enhanced a popular MPC dashboard to incorporate multiple business units → implemented Azure RBAC, provisioned user groups.
- Implemented an advanced caching mechanism: cut dashboard load time from 6s → 1s, developed Azure Loader Functions, performed deep SQL analysis and development, fixed multiple high severity issues, enhanced safety and efficiency of 3 critical database stored procedures, ↑ 22% Code Coverage increase delivered.

CarmenX   *October 2024 – December 2024*
- Developed a Ruby application to create an enhanced LMS that abstracts all the inefficiencies from OSU's Carmen Canvas.
- Utilized daily by students – provides a seamlessly aesthetic interface to increase navigation speed and clarity to any type of course.

LEADERSHIP & INVOLVEMENT

Ohio State Buckeyethon: *Team Captain*   *September 2022 – Present*
- Helped raise over $600,000 in funding for Nationwide Children's Hospital hematology and oncology unit for kids with cancer.
- Campaigning for funds all year-round from 2022-2026.

Engineering House Learning Community: *Residential Advisor* (Archer/Torres House)   *August 2022 – Present*
- Operate as an RA for an on-campus engineering living community.
- Promote the well-being of 75 engineering students, plan building-wide events, perform rounds to ensure a safe building.

OSU DALT Residential Community Council: *Diversity Equity and Inclusion Chair*   *August 2022 – May 2023*
- Developed a plan alongside a team of 8 council members to manage the $12,000 in building funds.
- Initiated the process of planning 5 monthly events and outings for my residential community on campus.

HONORS & AWARDS

RIT Computing Medal - Awarded by the Rochester Institute of Technology to students excelling in the field of computer science.