

VASHISHTH GOSWAMI

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Education

University of Illinois, Urbana Champaign

Bachelor of Science in Computer Science, GPA: 3.54/4.0

Dec 2024

Urbana-Champaign, IL

College of Dupage

Associate of Engineering Science, GPA: 3.92/4.0

May 2022

Glen Ellyn, IL

Relevant Coursework

- Deep Learning for Computer Vision
- Artificial Intelligence
- Cryptography
- Distributed Systems
- High Frequency Trading
- Technologies
- Database Systems
- Data Mining

Technical Skills

Programming Languages: Python, C, C++, Java, JavaScript, Rust, Verilog, ROS, R, MySQL, Neo4J, MongoDB

Libraries & Frameworks: PyData stack (pandas, numpy, matplotlib, scikit-learn), PyTorch

Languages: English, Gujarati, Hindi

Statistical Modeling: Linear Regression, Time Series, Random Forest, Neural Networks, Clustering, PCA, SVM

Experience

Software Developer – Focused on Data & Microservices

Apr 2025 – Present

Saayam For All

Remote

- Built and maintained scalable microservices using Java and Spring Boot; integrated APIs and event-driven architecture with Kafka and PostgreSQL
- Collaborated with cross-functional teams to develop analytics pipelines and improve data flow in distributed environments
- Wrote unit tests and documentation following DevOps best practices

Course Development Assistant

Jul 2024 – Aug 2024

University of Illinois Urbana-Champaign

Urbana-Champaign, IL

- Migrated 30+ course content items to PrairieLearn, enhancing the learning platform using JavaScript and Python.
- Upgraded platform questions to a newer version, troubleshooting and resolving compatibility issues.
- Optimized proof tree editor performance, refining UI/UX with JavaScript, Python, HTML, and CSS for a smoother experience.

Peer Tutor

May 2021 – May 2022

College of DuPage

Glen Ellyn, IL

- Mentored 50+ students in Math, Physics, and Computer Science, customizing learning strategies to boost academic performance.
- Strengthened students' problem-solving and critical thinking skills through hands-on guidance.
- Cultivated a collaborative and engaging study environment, driving higher retention and understanding.

Projects

Curriculum Crafter | MySQL, Python, React, Flask

Aug 2024 – Dec 2024

- Engineered a course planning tool, structuring an optimized database to manage prerequisites, graduation requirements, and constraints.
- Scraped and integrated academic data into a MySQL server, improving information accessibility.
- Developed RESTful APIs to handle course transactions, ensuring real-time updates and consistency.
- Designed interactive React visualizations, simplifying course dependency tracking for students.
- Automated semester-wise academic planning, maximizing course efficiency and accelerating graduation timelines.

NASA Lunabotics Mining Robot | Python, ROS

Aug 2021 – May 2022

- Engineered real-time CPU-robot communication, optimizing mining efficiency through robust integration.
- Designed partial autonomy systems, reducing human intervention and enhancing operational safety.
- Conducted rigorous debugging and testing, ensuring software reliability in autonomous operations.
- Awards: Caterpillar Autonomy (3rd place), Special Recognition in Systems Engineering

Activities

Clubs : UIUC ACM SigMA, COD Engineering & Robotics Club

Hackathons & Competitions : HackIllinois 2023, NASA Lunabotics Competition