Shreyas Pradeepkumar Khandale

Binghamton, NY | (607) 774-7417 | skhandale@binghamton.edu | linkedin.com/in/shreyaskhandale | github.com/sherurox

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science in Computer Science | **Cumulative GPA**: 3.40/4.00 *Expected May 2026*
Coursework: Programming Languages, Internet of Things, Data Mining, Design and Analysis of Complex Algorithms, Systems Programming, Artificial Intelligence, Machine Learning, Computer Vision, High Performance Computing

AISSMS College Of Engineering Pune, India *June 2024*
Bachelor of Engineering in Computer Engineering | **Cumulative GPA**: 3.52/4.00
Coursework: Cloud Computing, Computer Network, Blockchain, Web Technology, Database Management, Cyber Security

TECHNICAL SKILLS

Languages: C++, Java, Python, MySQL
Software and OS Technologies: Visual Studio Code, Jupyter Notebook, Hugging Face, PyCharm Eclipse, Git, Power BI Linux, AWS, Google Cloud Platform, HTML, CSS, XML Parsing, Data Visualization, Data Analysis, Predictive Analysis
Certifications: NVDIA Fundamentals of Accelerated Computing with CUDA C/C++, Stanford University Certification on IOT, Certiproof Professional Certification of Cyber Security, 40 Google Cloud Skill Boosts, IBM Python for Data Science

PROFESSIONAL EXPERIENCE

Digital Twin Technology & Quantum Integration Research Assistant | Binghamton University, NY *January 2025 – Present*
- Conduct research under Prof. Yemeng Zing on integrating Quantum Networking, Quantum Computing, and Edge Computing with Digital Twin technology to enhance real-time simulations, predictive analytics, and decentralized cyber-physical systems and implement hybrid AI models combining quantum machine learning (QML)
- Developing quantum-enhanced AI models, edge computing frameworks, and secure data exchange protocols to improve the scalability, efficiency, and intelligence of next-generation Digital Twin architectures

Binghamton University Information Technology Services | *Communications Specialist Intern* *January 2025 – Present*
- Collaborate with the ITS team to enhance campus-wide engagement through digital communications and website

Data Structures & Algorithms Teaching Assistant, AISSMS COE | Pune, India *June 2022 – May 2024*
- Assisted Prof. Sumedh Dhengre in guiding students through linked lists, hashing, and graph algorithms, conducted lab sessions, mentored projects, and supported grading and course material preparation to improve student outcomes

Cloud Computing Teaching Assistant, AISSMS COE | Pune, India *June 2023 – May 2024*
- Supported Prof. S. S. Kolte in teaching topics like virtualization, cloud security, and data storage, organized AWS and Azure practical sessions, and led workshops on Docker, Kubernetes, and IoT-cloud convergence

Artificial Intelligence Teaching Assistant, AISSMS COE | Pune, India *June 2023 – May 2024*
- Worked with Prof. Neha Rai to explain core AI concepts such as Intelligent Agents, Search Algorithms, and Game Theory, guided students in problem-solving techniques like heuristic and adversarial search, and helped students apply AI algorithms to practical assignments

Acmegrade, *Full Stack Development Intern* | Pune, India *December 2022 – January 2023*
- Developed an online Bookstore to facilitate the process of purchasing books by vendors and customers, utilizing HTML, CSS, JavaScript and PHP. Designed an easy-to-use frontend UI system by integrating backend data with My SQL into a tabular representation

PROJECT EXPERIENCE

IOT Based Network Attached Storage, Project Lead | Group Project *August 2023 – May 2024*
- Led a team of five to develop an efficient and private Cloud Storage using Raspberry Pi model 4 and Repurposed Storage Devices with the help of OpenMediaVault Technology
- Integrated custom storage setup by allocating different types of recycled storage devices and analyzed their transfer speeds
- Developed a secure Cross-Platform with a password protected access which increased security by 95%
- Published a research paper on *Ijraset- Journal For Research in Applied Science and Engineering Technology*, ISSN: 2321-9653. https://doi.org/10.22214/ijraset.2024.65616

RESEARCH EXPERIENCE

Predicting Credit Card Defaults with Machine Learning. *Ijraset- Journal For Research in Applied Science and Engineering Technology*, ISSN: 2321-9653. https://doi.org/10.22214/ijraset.2023.55934

Stock Market Analysis using Heuristic Approach. *Ijraset- Journal For Research in Applied Science and Engineering Technology*, ISSN: 2321-9653. https://doi.org/10.22214/ijraset.2023.55932

Amazon Fine Food Review Analysis. *Ijraset- Journal For Research in Applied Science and Engineering Technology*, ISSN: 2321-9653. https://doi.org/10.22214/ijraset.2023.55930