Shreyas Pradeepkumar Khandale

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Education

State University of New York, Binghamton — **Aug 2024 – May 2026**
Master of Science in Computer Science — *GPA: 3.7*

– Relevant Coursework: Artificial Intelligence, Machine Learning, Design and Analysis of Algorithms, Programming Languages, Data Mining, Systems Programming, Web Programming, Computer Vision

AISSMS College of Engineering — **Feb 2021 – May 2024**
Bachelor of Engineering in Computer Engineering — *GPA: 3.5*

– Relevant Coursework: Cloud Computing, Cyber Security, Blockchain Technology, Computer Networks and Security, High-Performance Computing, Deep Learning, Natural Language Processing, Business Intelligence

Skills

– **Languages:** Python, C++, JavaScript, Typescript, PHP, SQL (MySQL, PostgreSQL), HTML, CSS, Java
– **Softwares & Operating Systems:** TensorFlow, Keras, OpenCV, NumPy, Pandas, SciPy, Scikit-Learn, XGBoost, JDBC, NetBeans IDE, phpMyAdmin, XAMPP, Apache, Microsoft Azure, LoRaWAN, NFC, The Things Network (TTN), REST APIs

Experience

Information Technology Services, Binghamton University (New York, USA) — **Jan 2025 – Present**
Computer Service Administrator

– Manage and optimize mission-critical **IT infrastructure**, ensuring campus-wide reliability across **AI chatbots**, cloud platforms, server administration, and web services
– Maintain a **configuration-management system** tracking 2,500+ endpoints, 150+ servers, and **10,000+ user records**, with a focus on data accuracy, security, and availability
– Deploy automation pipelines and **AI-driven solutions** (Mongoose chatbot, RESTful APIs, network monitoring) to streamline ticket resolution, asset management, and connectivity across 750+ switches and 400+ access points

Quantum Lab, Binghamton University (New York, USA) — **Jan 2025 – Present**
Digital Twin Technology & Quantum Integration Research Assistant

– Advancing a **Digital Cousin framework** for quantum networks, a scalable alternative to digital twins that integrates **quantum networking, quantum computing, and edge intelligence** for predictive simulation and experiment co-design
– Developing **Quantum AI models** — including **Transformer-based sequence learners**, probabilistic surrogates (Gaussian processes, LSTMs, beta-binomial), and **reinforcement-learning planners** — to replicate photon event statistics, optimize teleportation/purification cycles, and accelerate protocol planning
– Engineering an **AI-driven data pipeline** (outlier removal, normalization, sliding windows) that generates and validates 50k+ photon events, enabling **uncertainty-aware, multi-channel, and multi-node quantum simulations**

AISSMS College of Engineering (Maharashtra, India) — **June 2022 – May 2024**
Teaching Assistant

– Assisted Mr. Sumedh Dhengre in the **Data Structures & Algorithms** course, mentoring **150+ undergraduate students** through lectures and **4 weekly lab sessions**; guided projects on linked lists, hashing, graph algorithms, and memory management, and graded 200+ assignments/exams
– Supported Ms. S. S. Kolte in teaching **Cloud Computing**, delivering labs on **AWS, Azure, Docker, Kubernetes**, and IoT–cloud convergence; organized **5+ workshops** and practical sessions on virtualization, cloud security, and distributed storage
– Collaborated with Ms. Neha Rai in the **Artificial Intelligence** course, mentoring **120+ students** on intelligent agents, heuristic and adversarial search, logical inference, and knowledge-based planning; supervised projects, ensuring practical application of AI algorithms to real-world problem domains

Acmegrade (Maharashtra, India) — **Dec 2022 – Jan 2023**
Full Stack Development Intern

– Collaborated on **"Equinox Book Store"**, a full-stack web application for online bookstore management; reported directly to Academic Head, **Mr. Challa Rohit**
– Engineered **front-end and back-end modules** using **PHP, MySQL, HTML, CSS, JavaScript**, deployed via **XAMPP/Apache**, with authentication, dynamic catalog browsing, and order management features
– Delivered a **secure and scalable online bookstore**, improving inventory accuracy and reducing manual order tracking effort by **90%**, enhancing both vendor efficiency and customer experience