VISHAL ADHAV

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EDUCATION

Binghamton University, State University of New York, School of Computing
Master of Science in Information Systems   Spring 2025
Cumulative GPA: 3.56/4.00
Relevant Coursework: Web Database & Security, Applied Data Mining, Database System, Tools for Data Science, Software Project Management, Information System Security, Design Pattern

TECHNICAL SKILLS

- **Languages**: Python, JavaScript, Java, SQL, HTML/CSS
- **DevOps & Cloud Technologies:** AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, Terraform, Git, Linux
- **Databases & Data Tools:** PostgreSQL, MongoDB, MySQL
- **Development Tools & Practices:** Agile/Scrum, JIRA, REST APIs, Microservices Architecture, Test-Driven Development
- **Data Analysis & Big Data:** Power BI, Tableau, ETL Pipelines
- **Certifications:** SAP01 SAP Overview, HTML, CSS, and Javascript for Web Developers , Python Data Structures, Introduction to Big Data, Big Data Modeling and Management Systems, Basic Life Support American Red Cross

WORK EXPERIENCE

Binghamton University   August 2023 - Present
Research Data Analyst   *Binghamton, New York*
- Crafted scalable **CI/CD pipelines** using **Jenkins** and **GitLab**, managing **1M+ daily transactions** with 99.9% uptime
- Executed containerization using **Docker** and **Kubernetes clusters**, achieving 50% reduction in deployment time across environments
- Implemented comprehensive monitoring systems with **ELK stack**, enhancing **incident detection** and **system reliability**
- Built **DevOps** infrastructure using **Terraform**, integrating Jenkins, Docker, and Kubernetes, resulting in 70% faster deployments

Diquery Digital Pvt Ltd   July 2021 - June 2023
Software Engineer II   *Mumbai, India*
- Architected **microservices** system supporting **100K+ users**, leading **Agile Scrum** team of 6 developers through 15+ sprints
- Built 20+ **RESTful APIs** using **Django** and **Flask**, improving cross-application efficiency by 40% while maintaining 90% test coverage
- Led backend **system architecture** and team **leadership**, ensuring on-time delivery of critical features and consistent **code quality**
- Established transition to **microservices architecture**, enhancing **system performance** and **scalability** for growing user base

Software Engineer I
- Designed an **AWS disaster recovery** system with 99.99% durability, achieving 15-minute RPO and minimizing system downtime
- Developed scalable **full-stack** applications using **Python** and **React**, supporting **50K+ active users** with optimized performance
- Implemented **system monitoring**, reducing incident resolution time from hours to minutes through enhanced alerting

V2STech Solutions pvt ltd   August 2020 - July 2021
Software Engineer   *Mumbai, India*
- Led system modernization to **microservices architecture**, refactoring 100K+ lines of code and achieving 95% improved efficiency
- Introduced automated **security protocols** and **vulnerability scanning**, resolving 50+ critical issues across applications
- Enhanced **incident detection** with **AWS CloudWatch** monitoring and alerts, streamlining **problem resolution** workflow

PROJECT EXPERIENCE

EMI Bank - Loan Management System | *(Python, Flask, Angular, PostgreSQL, MongoDB, Docker, AWS)*
- Built scalable loan management system using **AWS infrastructure** and **RESTful APIs**, maintaining 95% test coverage and ensuring robust system reliability

Student Registration System | *(Python, Django, React.js, PostgreSQL, AWS S3)*
- Developed scalable student management system with **comprehensive testing**, achieving 100% test coverag**e** for critical workflows

University Quiz System | *(Python, Django, React.js, AWS S3)*
- Created automated quiz platform with **CI/CD integration** and grading system, driving 40% improvement in operational efficiency

Search Engine | *(Python, FastAPI, React.js, MongoDB, AWS S2)*
- Developed optimized search engine handling **1000+ queries/minute**, achieving 40% reduction in response time through performance tuning

AlertDrive: AI-Powered Driver Safety System | *(OpenCV, TensorFlow, Raspberry Pi, Twilio API)*
- Built AI-powered safety monitoring system with **real-time detection**, achieving 60% **prediction accuracy** for driver behavior

ADDITIONAL INFORMATION

- **Achievements:** Fall Frenzy '24 Winner, Employee of the month
- **Interests:** Travelling, Cricket, Table Tennis, Weightlifting, Driving, The Weeknd and Chess