# Jeevan Shrestha

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## EDUCATION

**Southeast Missouri State University**     **May 2025**

*Master of Science in Applied Computer Science*     *GPA: 3.9/4.0, Cape Girardeau, MO*

- **Relevant Coursework:** Data Structures and Algorithms, Advanced AI, Object-Oriented Design, Distributed Cloud Computing, Machine Learning, Advanced Programming Languages

**Islington College**     **May 2022**

*Bachelor of Science in Computer Science*     *Kathmandu, Nepal*

## TECHNICAL SKILLS

- **Languages:** Python, Java, TypeScript, JavaScript/HTML5/CSS3, SQL
- **Libraries/Frameworks/Databases:** React.js, Django, Next.js, Pandas, Node.js, TailwindCSS, PostgreSQL, MongoDB
- **Tools/Technologies:** AWS (EC2, S3, RDS), Docker, Kubernetes, CI/CD, GitHub, Azure, Postman, Insomnia, Linux

## EXPERIENCE

**Software Engineer (Volunteer)**     **Sep 2025 – Present**

*MitraIT Inc.*     *Remote*

- Developed and enhanced scalable web applications (React/Node.js), improving **performance and code efficiency by 30%** and executed **RESTful APIs** and unit testing to reduce **post-release bugs by 25%**.
- **Collaborated in Agile sprints** with cross-functional teams, delivering features on time with a **95% sprint completion rate**.
- Refined database queries and backend processes, significantly improving overall **data retrieval speed by 25%**.
- Conducted code reviews and implemented best practices to maintain **code quality and consistency**.

**Graduate Research Assistant**     **Aug 2024 – May 2025**

*Southeast Missouri State University*     *Cape Girardeau, MO*

- Developed and delivered course materials on software supply chain security, including threat modeling, vulnerability analysis, and lab integration of OWASP Dependency-Check, Threat Dragon, and SIEM systems.
- Created quizzes, case studies, and labs to teach risk assessment, dependency scanning, and secure software design principles.

**Software Engineer Intern**     **Nov 2021 – May 2022**

*Code Asterisk Pvt. Ltd.*     *Kathmandu, Nepal*

- Built a **React storefront** with responsive design, boosting **user engagement by 20%** and reducing frontend errors by **30%** in an Agile environment.
- Created frontend components with **CI/CD integration** and automated regression tests, enhancing development efficiency.
- Collaborated with **backend engineers** on SQL/Oracle database structures, improving **query performance by 25%**.

## PROJECTS

**AI-Chatbot | React, Node.js, Gemini API, MongoDB – GitHub**

- Built a **real-time AI chatbot** (React/Node.js) delivering context-aware responses with <**200ms latency**.
- Applied **secure authentication** and improved API calls, significantly improving overall system performance by **30%** and reducing errors.
- Integrated **MongoDB** to efficiently store user sessions, enabling chat history, detailed analytics, and improved data management.

**Financial Fraud Detection | Python, Pandas, Scikit-learn – GitHub**

- Engineered **fraud detection models** using Logistic Regression and Random Forest in Python, achieving **92% accuracy**.
- Performed data preprocessing, feature scaling, and pattern analysis to reduce **false positives by 15%**.
- Evaluated model using **precision, recall, F1-score** with Pandas, scikit-learn, and Matplotlib.