


JEEVAN SHRESTHA

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Education

Southeast Missouri State University

Master of Science in Applied Computer Science

Expected Graduation: May 2025

Cape Girardeau, MO

Islington College

Bachelor of Science in Computer Science

Graduated: May 2022

Kathmandu, Nepal

Work Experience

Southeast Missouri State University

Graduate Research Assistant

August 2024 – Present

Cape Girardeau, MO

- Collaborating with faculty to design a graduate-level course module on Software Supply Chain Security, emphasizing the integration of Artificial Intelligence (AI) techniques in a Windows environment.
- Researching and curating industry-relevant tools and methodologies for identifying, mitigating, and analyzing security vulnerabilities in software supply chains.
- Developing practical assignments and projects to teach AI-driven solutions for securing software ecosystems, aligning academic goals with industry best practices.
- Bringing together expertise in AI, Python, and security frameworks to craft engaging course experiences and smart assessment tools that make learning both interactive and secure.

Code Asterisk Pvt. Ltd.

Software Engineer Intern

November 2021 - May 2022

Kathmandu, Nepal

- Designed frontend components by collaborating with Figma, ensuring a cohesive and visually appealing user interface in alignment with project requirements and design standards.
- Analyzed the best implementation for the calendar system, researching relevant APIs and RFCs that would create a practical integration. Included extensive testing among existing providers.
- Created the Vue.js-based storefront, strategically optimizing website usability for mobile devices through responsive design and performance enhancements, ensuring a seamless and efficient shopping experience.

Projects

Netflix Clone | MERN Stack — Source Code

June 2024

- Engineered a scalable Netflix clone using the MERN stack, resulting in a high-performance application capable of handling thousands of concurrent users.
- Optimized data management and retrieval speeds by designing efficient MongoDB schemas, reducing query times by 40% and employed indexing strategies and schema design best practices to streamline data access and minimize latency.
- Boosted security and user trust by integrating robust authentication and authorization mechanisms using JWT and bcrypt, safeguarding sensitive user data.

Student Study Habit Analyzer | HTML, CSS, Javascript — Source Code

May 2024

- Developed a study habit tracker with a Java backend and a responsive frontend using HTML, CSS, and JavaScript, enabling users to log study sessions, set reminders, and store data locally, improving task tracking efficiency by 40%.
- Enhanced user experience by implementing robust form validation, clear error messages, and seamless backend integration, reducing user errors by 25% and improving reliability for 100+ stored sessions.

Emotion and Face Detection | Java, OpenCV — Source Code

December 2023

- Initiated OpenCV's robust libraries to ensure precise face detection, a critical component for accurate emotion recognition, enhancing the system's ability to detect facial features with high accuracy.
- Employed advanced Java techniques for efficient emotion classification through facial recognition, resulting in a streamlined process that reduced computational time by 30%, ensuring rapid response during user interactions.

Technical Skills

Languages: Python, Java, C++, JavaScript/HTML5/CSS3, SQL, MongoDB

Libraries/Frameworks: React.js, Vue.js, Django, Pandas, Node.js, OpenCV, Typescript

Tools: Github, Windows, REST API, AWS(EC2, RDS, Cloud Formation), Postman, Insomnia, Docker, Xcode

Other Skills: JWT, OAuth, Distributed Systems, Scalable Backend Design

Relevant Coursework: Data Structures and Algorithms, Advanced AI, Object-Oriented Design, Distributed Cloud Computing, Machine Learning, Advanced Software Engineering

Certifications

- **Software Development** — Microsoft and LinkedIn