Gagan Sapkota

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EDUCATION

Farmingdale State College Farmingdale, NY

Bachelor of Science in Computer Science, Minor in Applied Mathematics *Expected Graduation: May 2025*

EXPERIENCE

Software Engineer Intern Jan 2025 – Present

Cowan Consulting *New York, NY*

- Developed and optimized 3+ web applications using React.js, Node.js (Express.js), Firebase, and Stripe, enhancing user experience and improving system performance.
- Redesigned and debugged web applications, successfully fixing 100% of reported bugs, ensuring seamless functionality and an improved UX.
- Developed a hotel reservation system, leveraging React.js, Node.js, Firebase, and Stripe, improving booking automation, reducing manual errors, and optimizing data storage with Firestore by cutting query times by 40%.

Software Engineer Intern June 2023 – Sep. 2024

New York State D.S.S I.T *Garden City, NY*

- Provided support to 600+ employees, troubleshooting and resolving software and hardware issues across government-specific applications, Windows OS, and Virtual Desktop Infrastructure (VDI).
- Managed and optimized SQL databases, assisting in maintenance, implementing new features, and improving data integrity for efficient operations.
- Imaged, configured, and deployed Virtual Desktop Infrastructure (VDI) for end users, ensuring seamless integration and operational efficiency.

Web Developer Intern June 2022 – Aug. 2022

Nassau County I.T *Mineola, NY*

- Collaborated within the Web Development team to optimize and elevate the functionality and aesthetics of the Nassau County Website.
- Contributed to website enhancements, ensuring a seamless and user-friendly online experience for visitors.

PROJECTS

Moneta | *Vue.js, Spring Boot, GraphQL (Apollo), RAG, JWT*

- Developed Moneta, a Vue.js frontend and Spring Boot backend application integrating GraphQL (Apollo) for efficient data fetching and JWT authentication for secure user access.
- Implemented AI-driven flashcard generation, utilizing Retrieval-Augmented Generation (RAG) to dynamically create study materials based on user-uploaded course content.
- Built an interactive chatbot to provide real-time answers and clarification, enhancing user engagement and learning efficiency.
- Enabled personalized study experiences, allowing users to create custom flashcards, select topics of focus, and tailor AI-generated content to their needs.

Phantini | *React.js, Node.js, Express.js, MongoDB, JWT, bcrypt.js, Stripe*

- Developed a comprehensive web application for high-end vehicle services using React, MongoDB, Node.js, and Express.
- Implemented secure user authentication with JWT and password hashing for sign-up and log-in functionality.
- Engineered a user-friendly interface allowing customers to add and purchase services for their vehicles directly through the website.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, C#, Ruby, Kotlin, Go, TypeScript, Swift, SQL, NoSQL, PostgreSQL
Frameworks: React.js, Angular, Node.js, Vue, Spring Boot, Express.js
Developer Tools: Git, GitHub, AWS, Microsoft Office, Linux
Libraries & Databases: RESTful APIs, MongoDB, Firebase, Stripe, OpenAI API, GraphQL, Apollo, JWT, bcrypt.js, RAG (Retrieval-Augmented Generation)