



# Shivam Mahajan

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Beloit, WI - 53511, United States

## EDUCATION

### • Beloit College

B.S. in Computer Science and Mathematics

◦ GPA: 3.4/4.00

◦ Recipient of Dean's list - Fall 2021 & Spring 2023.

Aug 2021 - Present

Beloit, USA

## EXPERIENCE

### • Headstarter AI

Software Engineering Intern

◦ Built and deployed 5+ AI projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporated CI/CD practices for iterative deployment with 98% accuracy as seen by 1000 users.

◦ Scaled each project to 200+ users, iterated on user feedback to make continuous optimizations.

◦ Designed the UI using typescript and utilized firebase & AWS for database management. Utilized computer engineering practices to deliver a fully functional product.

July 2024 - September 2024

Remote

### • LITS

Database Manager

◦ Managed library's database to assure proper classification of materials, improving work efficiency by 40%. Controlled data entry procedures.

◦ Reviewed inventory using technique of Dewey Classification system. Conducted regular shelf organization to ensure an efficient inventory control process.

◦ Delivered accurate and precise reports for updates on database and inventory to supervisor.

Dec 2022 - May 2023

Beloit, WI

## PROJECTS

### • Study Stash: [A flashcard generator that solves users problem.]

Tools: [Next.js, MUI, OpenAI API, TypeScript, Vercel, Stripe API, Clerk API, Firebase]

◦ Built and deployed a SaaS product that generates dynamic flashcards based on any topic using the OpenAI API, integrated a paywall and custom pricing plans using the Stripe API with 95% accuracy and serving 100+ active users.

◦ Engineered data management with Firebase, ensuring real-time updates and seamless user experience.

◦ Designed and implemented UI components with MUI libraries and TypeScript, enhancing accessibility and responsiveness.

July 2024 - Aug 2024



### • AI Customer Support: [Custom chat-bot for handling customer queries.]

Tools: [Next.js, MUI, OpenAI API, Vercel, RAG, TypeScript]

◦ Architected and built a SaaS product that generates dynamic flashcards based on any topic using the OpenAI API, integrated a paywall and custom pricing plans using the Stripe API.

◦ Leveraged Vercel for deployment, ensuring high performance and reliability in production.

◦ Developed project from design to deployment leading 4+ engineering fellows using MVC design patterns.

Aug 2024



### • Inventory Manager: [An inventory management app for businesses.]

Tools: [React, Node.js, Typescript, CSS, Firebase, API and Database management, Vercel]

◦ Developed a fully functional inventory management application using React, Node.js, and TypeScript, successfully serving over 100 users in small business environments.

◦ Implemented an image detection system to streamline material identification, enhancing user experience and operational efficiency.

◦ Managed backend services with Firebase and deployed the application on Vercel, ensuring reliable performance and scalability.

July 2024



## TECHNICAL SKILLS

• **Programming Languages:** Python, JavaScript, Typescript, Java, C, C++, C#

• **Libraries and Frameworks:** React, MUI, Next, PyTorch, Spring Boot

• **Cloud Technologies:** SQLite, Azure, Amazon web services (AWS)

• **API:** OpenAI, llama, Clerk, Stripe

• **Source Control Management and Deployment:** Git and Vercel

• **Coding and Technical tools:** Data structures & Algorithm design, Object-oriented design & programming, Distributed systems. Distributed storage, Distributed computing, Software systems, Software development

• Skilled in teamwork, committed to delivering work on time and improve the problem solving.