Saikarthik Mummadisingu

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Education

Stevens Institute of Technology · Hoboken, NJ ***Expected May 2026***

Bachelor of Science in Computer Science ***GPA:*** *3.85/4.0*

Relevant Coursework: Web Programming, Database Management Systems, Data Structures, Algorithms, Systems Programming, Linear Algebra, Computer Architecture

Technical Skills

Languages: Java, Python, HTML/CSS, JavaScript, C/C++, SQL
Tools & Libraries: React, Node.js, Express, Spring Boot, MongoDB, PostgreSQL, Firebase, GitHub, Git

Experience

Software Development Research Intern **May 2024 – July 2024**

Stevens Institute of Technology, School of Systems and Enterprises *Hoboken, NJ*

- Developed a Google Chrome extension for **GitHub** automating commit message generation for users' repositories, enhancing code documentation quality
- Integrated **RefactoringMiner API** with a **Spring Boot** backend to obtain and analyze specific refactoring instances within GitHub commit pages
- Improved developers' understanding of code modifications by leveraging **OpenAI's GPT-3.5-Turbo-Instruct Model** to generate informative commit summaries from refactoring changes
- Optimized data access efficiency and reduced token usage from GPT-3.5-Turbo-Instruct Model by integrating a **MySQL** database with the backend, improving commit message retrieval times

Undergraduate Researcher **May 2023 – August 2023**

Stevens Institute of Technology, School of Business *Hoboken, NJ*

- Designed an experimental online platform utilizing JupyterLab and JupyterHub to investigate how generative A.I. tools can impact software engineering workflows
- Collaborated with Purdue University to integrate the **Jupyter AI** extension into their IronHacks platform, incorporating leading generative models such as **AI21**, **OpenAI**, and **Hugging Face** for improved code completion, debugging, and refactoring
- Analyzed research data on changes in the software development process through **Google Firebase**

Projects

Final Exam Finder @ Stevens | HeadstarterAI Hackathon | *React, Node.js, Express, PostgreSQL, Render*

- Created a full stack application with a team of 3 members to help streamline finding final exam dates and times for students at Stevens Institute of Technology
- Integrated final exam schedules from Excel into a **PostgreSQL** database, and built backend server using **Node.js** and **Express** to handle user data and perform database queries for exam date retrieval
- Deployed the application and PostgreSQL database on **Render**, ensuring high availability for **1000+** students

Flashcard SaaS Platform | *Next.js, Firebase, OpenAI, Clerk, Stripe*

- Built and launched a SaaS product using **Next.js** that generates dynamic flashcards based on user-selected topics utilizing OpenAI's GPT-4o model
- Integrated a paywall and custom pricing plans using **Stripe** API and implemented secure authentication using **Clerk**
- Utilized **Firebase** for backend infrastructure including database management and hosted platform on **Vercel**

EduBoard | *React, Node.js, Express, MongoDB*

- Designed a user-friendly interface using **React**, helping students to efficiently create, organize, and manage class sections and associated tasks throughout their semester
- Built backend server using **Node.js** and **Express** integrated with a **MongoDB** database, ensuring secure and efficient data storage and retrieval for class and task data

MiniShell | *C, UNIX*

- Developed a robust **C** program replicating a **Unix** shell, supporting essential terminal operations
- Implemented core shell commands, including cd, exit, ls, pwd, and a custom lp function for listing active processes
- Enhanced program reliability by incorporating signal handling, specifically capturing **SIGINT** to return the user to the prompt without terminating the program