

Saikarthik Mummadisingu

☎ 551-227-1818

✉ smummadi@stevens.edu

🌐 [linkedin.com/in/saikarthikm](https://www.linkedin.com/in/saikarthikm)

🐙 github.com/saikvm

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

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

- 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
- Developed a notification system using **NodeMailer** to send emails to users, notifying them of upcoming due dates

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

Billion Oyster Project | *Python, NumPy, Scikit-Learn, Matplotlib*

- Directed a research project with a team of 5 members to analyze correlations between oyster shell sizes and habitat temperature on water filtration abilities through linear regression models
- Leveraged Python libraries including **NumPy**, **Matplotlib**, and **Scikit-Learn** for data processing and statistical modeling from **10,000+** data points

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