

Sriram Malarvizhi Kumaran

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EDUCATION

University of Michigan, Ann Arbor

December 2025

Bachelor of Science in Engineering, Computer Science, 3.4/4.0

Ann Arbor, Michigan

- Relevant Coursework: Data structures and Algorithms, Discrete Math, Multi-variable Calculus, Linear Algebra, Data Science for Engineers

PROJECTS

YoutubeNotion | *HTML/CSS, JavaScript, Youtube API, Notion API*

May 2023 – Present

- Developed a Google Extension for seamless YouTube link bookmarking in Notion databases, integrating Notion API's OAuth access token and database ID for efficient data insertion.
- Utilized YouTube API for quick video URL retrieval and designed an intuitive Google Extension popup using Bootstrap Framework, enhancing user experience.

Mindscape | *JavaScript, Bootstrap, Flask, Google Cloud, GPT4-Turbo*

November 2023

- Constructed an AI counselor, Mindscape, using real-time emotion analysis and Fine-tuned OpenAI's GPT4-Turbo.
- Utilized Bootstrap and JavaScript for the front-end and Flask for the backend, Integrated Google Cloud Vision AI API for sentiment analysis and Speech to Text for speech input, enabling dynamic prompts based on the direction of the user's emotions.

Bank Wire Transfer Simulator | *C++, Git/GitHub*

November 2023

- Developed a real-time gross settlement system for 281Bank, handling 10,000+ daily transactions with seamless user registrations, secure login/logout mechanisms, and accurate transaction placements.
- Optimized transaction processing with priority queues and data structures, incorporating loyalty discounts and increasing revenue by 25% for longstanding customers, while ensuring robust fraud prevention systems.

Graph Algorithm Implementation | *C++, Git/GitHub*

December 2023

- Implemented Minimum Spanning Tree algorithms and a branch-and-bound approach for the Travelling Salesperson Problem, achieving an efficient route approximation within time constraints.

EXPERIENCE

Intern

Sept. 2021 - Oct. 2021

Entelyst Enterprises

Doha, Qatar

- Specialized in cybersecurity threats, antivirus systems, network segmentation, intrusion prevention, and phishing countermeasures for the firm.
- Demonstrated proficiency in product distribution, customer service, and customer satisfaction strategies during the internship tenure.

PROFESSIONAL DEVELOPMENT

Meta Back-End Developer

June 2023 – Present

- Built a fully functional website using Django for backend development, integrated MySQL database for data management, implemented various API endpoints, and utilized frontend technologies like HTML, CSS, and JavaScript.

Introduction to APIs in Google Cloud

July 2023

- Configured and ran Cloud Storage API methods in Google Cloud Shell, created and managed Cloud Storage buckets, and uploaded files using the Cloud Storage JSON/REST API.

EXTRACURRICULAR

Michigan DataScience Team | *Member*

August 2023 – Present

- Developing a Python-based WORDLE solver bot using Flask, employing algorithms and data structures to guess the 5-letter word within 6 attempts efficiently.

Michigan Hackers | *Member*

Jan. 2022 – April 2023

- Contributed to the Development of the iOS application GGBLost using SwiftUI in Xcode, in collaboration with a team of 5 members from the largest tech-oriented student organization on campus with 200+ members.

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, HTML/CSS, MATLAB, \LaTeX

Tools: MySQL, Git/GitHub, Unix Shell, VS Code, Google Cloud

Frameworks: React, Node.js, RestAPI, Bootstrap

Libraries: Pandas, NumPy, Matplotlib