

Rahul Baragur

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EDUCATION

Michigan State University

Bachelor of Engineering in Computer Science | GPA: 3.8/4.0

East Lansing, MI

Aug. 2021 – May. 2025

Farmington High School

High School Diploma | GPA: 3.8/4.0

Farmington, MI

Sep. 2017 – May. 2021

RELEVANT EXPERIENCE

Software Engineering Intern

May. 2023 – August. 2023

Acsia Technologies (Tier 2 Supplier)

Bangalore, India

- Developed over 400 system, software and electrical requirements for a multi-million dollar DC/DC converter of an electrical vehicle produced by a global original equipment manufacturer
- Translated software requirements into production C code with usable functionality and testable components using VSCode and AUTOSAR
- Assisted Functionality Safety team of the completion of DC/DC converter functions with analysis of diagnostic trouble codes distributed by the ECU via CAN protocol
- Enhanced efficient work protocols and policies by managing meeting of minutes for employees, bug trackers, and adhering to AGILE methodologies and ASPICE/ISO 26262, resulting in organized work environment and achievement of deadlines 50% faster

LEADERSHIP EXPERIENCE

Rush Chariman & Events Coordinator

Jun. 2021 – Dec. 2022

Kappa Sigma Fraternity Inc. - Delta Psi Chapter

East Lansing, MI

- Conducted rush procedures with innovative strategies and effective communication to accomplish an increase of 43 new member initiations whilst managing curated communities to promote the experience
- Developed a comprehensive budget plan, allocating \$2,000 of chapter funds for necessary events while practicing cost estimation techniques and minimizing expenses while maximizing member initiations

PERSONAL PROJECTS

Ahoy | React, TypeScript, Next.js, Prisma, Pusher, MongoDB

May. 2023 – Aug. 2023

- Developed a pirate-themed messaging app with real-time messaging functionality, utilizing route handlers and customs hooks through Prisma, Pusher, React and Next.js
- Implemented a chatbot using the OpenAI API, catering to 8 users by delivering personalized pirate responses
- Created a secure login authentication site using Github and Google OAuth for flexibility of access

StipeCoin | Solidity, JavaScript, Git

July. 2023

- Developed a smart-contract with standard balance, transfer and supply functions based on the ERC20 token using Solidity and JavaScript
- Employed gas optimization code to minimize transaction costs on the Rinkeby Test Network
- Ensured flawless execution on the test network and addressed vulnerabilities through the creation of JavaScript unit tests on the simulated blockchain network

LocoListen | Python, Streamlit, NumPy, pandas, HTML/CSS, SQL

Jan. 2023

- Launched a full-stack web app enabling location-based user inputs via Mapbox API and StreamLit, providing nearby songs and playlists
- Created a back-end with Python that stored users' Spotify data into SQL queries which were extracted into numpy datapoints

TECHNICAL SKILLS & INTERESTS

Languages: Python, C, C++, JavaScript/TypeScript, HTML/CSS, ARM Assembly, Solidity

Frameworks: React, Node.js, Next.js, TailwindCSS, AUTOSAR

Developer Tools: PyCharm, VSCode, VIM, CLion, Git, Github, Google Cloud Platform, Spyder, BASH, Cirsim

Libraries: pandas, NumPy, Matplotlib, Pusher, OpenAI API, Streamlit, Spotify API, Prisma

Interests: Premier League, NBA, NFL, working out, traveling, amateur racing, F1, nutrition