Saketh Ogirala

248-378-4154 | sogirala@umich.edu | LinkedIn | Github | Portfolio

EDUCATION

University of Michigan — Ann Arbor, MI
Bachelor of Egineering in Computer Science — *May 2025*
- Revelant Coursework: Data Structures and Algorithms, Introduction to Computer Organization, Machine Learning, Web Systems, Artificial Intelligence, User Interface Development

EXPERIENCE

Neuroprop — June 2024 – Present
AI/ML Software Engineer Intern — *Ann Arbor, MI*
- Contributed to the creation of NeuroProp, an application that helps lenders identify the most optimal real estate investment options based on their previous investments through reinforced and unsupervised learning methods
- Designed a PostgreSQL database to manage real estate properties, including detailed attributes such as location, price, and market trends, along with a model-generated score for each property to assess investment potential
- Built a responsive front end using HTML (Django templating), CSS (Bootstrap, custom styles), and JavaScript (jQuery, Dropzone.js, ApexCharts) to create an intuitive interface for real estate data visualization and analysis

Robert Bosch — May 2023 – August 2023
Software Engineering Intern — *Plymouth, MI*
- Created a Python script to automate GM's parking ECU data analysis by generating XML trees and organizing data into dedicated folders, achieving a runtime of approximately 105 milliseconds for processing over 50 data files
- Engineered an SQL-based inventory management system for the EPS (Parking) department, enhancing the tracking/resource allocation of over 50 items across 15+ benches with seamless bench management capabilities
- Designed Stateflow model to conceptualize OneParking feature, breaking the conventional approach by consolidating 8-12 ECUs into a centralized ECU, optimizing signal transmission and data efficiency in Bosch vehicles

Robert Bosch — May 2022 – August 2022
Software Engineering Intern — *Plymouth, MI*
- Designed solutions using Simulink MATLAB to simulate car LED light charging systems; achieved 5% improvement in energy efficiency compared to previous models, enhancing vehicle performance and reducing power consumption
- Developed a PremiumTorque adaptation applying real-time steering wheel torque data to calculate optimal steering angles, resulting in a 15% increase in precision of vehicle turning points, boosting overall driving performance
- Documented 40+ customer specifications in DOORS, ensuring coverage of system and software requirements and conducted testing of these requirements using CANoe, executing real-time car simulations to validate functionality

PROJECTS

Sign Language Interpreter | *Python, PyTorch, OpenCV* — July 2024
- Developed a CV system to recognize and interpret hand gestures for intuitive user interaction across devices
- Trained on a custom dataset, the system achieves real-time, high-accuracy gesture recognition with low latency

ScheduleSmart | *OpenAI API, SwiftUI, EventKit* — June 2024 – July 2024
- Developed ScheduleSmart, for TikTok TechJam, an AI-driven application designed to optimize daily schedules
- Seamlessly integrates with Apple Calendar, offering live updates and multiple viewing options (Day, Week, Month)

Cloned Google Search Engine | *Flask, Jinja, SQLite* — April 2024
- Developed a search engine, using algorithms such as TF-IDF and PageRank to ensure accurate search results
- Implemented web crawling, document parsing, and query processing, with focus on optimizing performance

Cloned Instagram Project | *AJAX, RESTful APIs, JQuery* — February 2024
- Developed an application mimicking Instagram using React and AJAX, for seamless client-server communication
- Implemented RESTful API to manage posts, comments, and likes, ensuring user interactions within the application

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (PostgreSQL, SQLite), JavaScript, HTML/CSS, R, Swift
Frameworks: React, Node.js, Flask, Django, Chakra-UI, WordPress, Material-UI, FastAPI
Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Webpack, Babel, CANoe, Stateflow, Simulink MATLAB
Libraries: pandas, NumPy, Matplotlib, TensorFlow, PyTorch, OpenCV, jQuery, Dropzone.js, ApexCharts, Beautiful Soup, NLTK, Jinja2