SAI ABHISHEK KETEPALLY

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EDUCATION

University Of Cincinnati **Graduating: May 2027**
Bachelor of Science, Computer Science GPA: 3.925/4.0

- Primary Coursework: Programming Languages, Web Application Programming and Hacking, Data structures and algorithms, Python, Computer Science 1 (C++), Engineering & Design Thinking 2, Probability and Statistics

SKILLS

Programming: C, C++, Python, MATLAB, VBA, LabVIEW, HTML, CSS, JavaScript, PHP, SQL
Other: Git, Excel, PowerPoint, ROS, Bootstrap

EXPERIENCE

Ming Chi University of Technology | Taipei, Taiwan (C++, Python, ROS) **Jan 2024 – May 2024**
Research Assistant, internship

- Collaborated on a project focused on development of an autonomous ocean cleaning submarine prototype
- Utilized ROS for seamless communication between robotic components
- Programmed the submarine robot prototype using Python and C++ to execute autonomous navigation and pollution detection algorithms

PROJECTS

Automedia | The Future of Data Hackathon (Python, Flask, Git, API's, OAuth 2.0) **June 2024 – July 2024**

- Programmed a secured application using Flask to automatically post on LinkedIn and Instagram using, enabling users to post content on these platforms by simply providing a prompt and an image
- Utilized OpenAI API to generate high quality and relevant content from prompts given by the user, leveraging advanced natural language processing capabilities
- Integrated LinkedIn API and Instagram Graph API to automate posts, Handled API authentication securely using OAuth 2.0, maintaining robust security protocols throughout the process

Churn Prediction Model | Personal Project (Python, TensorFlow, ANN, Streamlit) **May 2024 – June 2024**

- Developed and trained an Artificial Neural Network (ANN) to predict customer churn using structured data, aiming to help businesses identify customers likely to discontinue services.
- Achieved 98%+ validation accuracy through hyperparameter tuning, visualizing accuracy curves, and applying early stopping to prevent overfitting.
- Applied data preprocessing techniques including feature scaling (standardization) and one-hot encoding for categorical variables to optimize model training and ensure consistent performance across diverse datasets.

Mini Facebook | University of Cincinnati (HTML, CSS, JS, PHP, SQL, Git, Bootstrap) **Feb 2024 – April 2024**

- Programmed a comprehensive social networking platform, with features like user registration, session-based authentication, post and comment systems, profile management and responsive design using Bootstrap
- Implemented comprehensive security measures including protection against SQL injections by using prepared statements, CSRF attacks by sending a hidden key with the form for validation and XSS attacks by filtering input
- Enhanced user experience through dynamic content updates and ensured the performance of the application with thorough testing

ACTIVITIES

CEAS Innovation Challenge **May 2024 – July 2024**

- Conceptualized an innovative prototype that seamlessly integrates fashion with AI, showcasing the potential for cutting-edge technology in the fashion industry

IEEE **Aug 2024 – Present**

- Actively engage in team meetings and hackathons, contribute ideas to support project success and innovation

AWARDS & HONORS

Ambassador of Cincinnati-New Taipei City Sister City Association **2024-Present**
Dean's List, University of Cincinnati **2022-Present**

AVAILABLE FOR CO-OP: SPRING 2025 AND SUMMER 2025