

Saipavan Perepa

Fairfax, VA pperepa9@gmail.com +1 (571) 538-8147 US Citizen

Education & Certificates

George Mason University

Bachelor of Science in Computer Science; GPA: 3.50 / 4.00

Fairfax, VA

Expected Dec 2025

AWS Certified Cloud Practitioner

Certified by Amazon Web Services

August 2023

Technical Skills

Languages: Python, Java, C, HTML, CSS, JavaScript, Dart

Technologies: React.js, Django, Flask, TensorFlow, PyTorch, Flask, Scikit-learn

Cloud: AWS, GCP, AZURE, ZILLIZ

Experience

GFT Technologies / Ford Motor Company

May 2024 – Present

Data and Machine Learning Intern

- Supporting and developing **backend ML models** used by **AI/ML experts** through a **web platform**.
- Developing **APIs** that hook into **GPT-4** version for various applications.
- Creating models for managing **data cleanup** to ensure **data quality and integrity**.
- Implementing **backend enhancements**, such as **email notifications**, to support existing models and improve system functionality.
- Using **CLIP models** for **Ford cars** to enhance model performance and application.

APEXON

Jan 2023 – Oct 2023

Machine Learning and Application Developer

Fairfax, VA

- Proficiently** utilized Python and its key libraries such as *scikit-learn*, *TensorFlow*, and *PyTorch* for practical data science applications, including **binary classification**, **regression analysis**, and **clustering**.
- Applied theoretical concepts like *gradient descent* and *backpropagation* in real-world scenarios, effectively improving model accuracy and computational efficiency.
- Designed and implemented **custom neural network architectures** tailored to specific datasets and application requirements, showcasing problem-solving and innovative thinking.
- Actively contributed to the development and structuring of the internship program, incorporating practical, project-based learning approaches and current industry trends.

PROJECT EXPERIENCE

MediCognize – HackPrinceton Winner

March 2024

- Spearheaded the development of a telehealth platform leveraging AI and blockchain to enhance healthcare.
- Integrated Verwire API and MagicPilot.ai for secure medical data transmission; used Azure for video conferencing.
- Implemented real-time diagnostic support using AI technologies to assist doctors and patients during virtual consultations.
- Designed and implemented a secure login system with multi-factor authentication using auth0

HooPilot

March 2024

- Engineered a life management application, incorporating Flask and Python for backend and scikit-learn and NLP for intelligent functionality.
- Implemented JS for activity tracking, utilizing APIs for weather data and TensorFlow/Keras for data analysis.
- Developed an intuitive user interface with responsive design principles for seamless interaction.
- Integrated geolocation services to provide location-based recommendations and notifications for optimized daily planning.

OpenAI Chatbot with INTEGRATED AUTOMATED WEB SCRAPER

January 2024

- Developed a Python-based web scraper, with triggers set up through Azure Function App for automatic execution every 24 hours.
- Vectorized and stored the scraped data in Azure database services for efficient processing and retrieval.
- Integrated the data with OpenAI for enhanced AI-driven analysis, leveraging custom training for improved performance.