PRABHATH PALAKURTHI

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Education

George Mason University	**Aug 2022 - May 2026**
Bachelor of Science in Computer Science	*Fairfax, VA*

Technical Skills

Programming & Development: Python, Java, C, JavaScript, SQL, React.js, Next.js, Flask, FastAPI, Node.js, PostgreSQL, MongoDB

Machine Learning & Cloud: TensorFlow, PyTorch, Hugging Face, OpenAI API, LangChain, AWS (EC2, S3, Lambda), Google Cloud, Firebase, Docker, Kubernetes

Software Engineering & DevOps: Git, CI/CD, GitHub Actions, Jenkins, VS Code, Apache Spark, Pandas, NumPy, REST APIs

Experience

AI Systems Developer Intern	**March 2025 – Present**
Automate365 (VoiceBotics)	*Remote*

- Collaborate on developing and integrating **AI-driven marketing automation systems** and **CRM tools**, contributing to enhanced lead generation and operational efficiency.
- Assist in building **custom scripts**, **APIs**, and **web applications** using **Python, JavaScript, and other technologies** to streamline marketing processes.
- Support **data analysis, workflow automation**, and **system optimization**, enhancing marketing performance and reporting capabilities.
- Document **technical processes** and contribute to **team knowledge sharing**, gaining hands-on experience with **AI, automation technologies**, and collaborative project development.

Software Development Engineer Intern	**May 2024 – Aug 2024**
Rise Consultancy	*Vijayawada, India*

- Developed and optimized full-stack web applications using **JavaScript, HTML, CSS, React, and Node.js**, reducing page load time by **25%** and enhancing overall performance.
- Identified and resolved **40+** critical bugs across the application, improving system reliability and functionality by **30%**. Collaborated closely with cross-functional teams to brainstorm and implement robust solutions.
- Conducted comprehensive **testing and debugging**, ensuring cross-browser compatibility and seamless user experiences across **95%+** of modern devices.
- Contributed to the development of backend APIs and integrated third-party services, enhancing application scalability and performance.

Projects

EcoHiveAI	*React.js, Firebase, OpenAI DALL·E 2, Gemini API, FastAPI* Github	**January 2025**

- Developed an AI-driven sustainability platform that scans products and generates upcycling ideas using **DALL·E 2** and **Gemini API**.
- Integrated **gamified rewards** with Firebase, enhancing user engagement in eco-friendly practices.
- Presented at **HoyaHacks 2025**, earning recognition for innovation and impact in sustainability.

Spinal Health Prediction	*Scikit-learn, TensorFlow, Flask, Random Forest, SVM* Github	**December 2024**

- Built an ML model for spinal health classification, achieving **95.24% accuracy** and **100% recall** using **Random Forest** and **SVM**.
- Applied **medical alignment techniques** to incorporate expert-defined thresholds for enhanced diagnostic reliability.
- Deployed a **Flask API** with **AWS EC2**, ensuring scalable real-time ML inference.

SmartResponder	*Python, BERT, LlamaIndex, LangChain, Gmail API, Flask* Github	**November 2024**

- Developed an NLP-based email assistant that classifies emails into categories with **93.8% accuracy** using **BERT and LlamaIndex**.
- Integrated **GPT-4** and **LangChain** to generate **context-aware email responses**, reducing response time by 75%.
- Implemented real-time email processing via **Gmail API** and optimized execution with **AWS Lambda**.