Alwin Philip

Camden, New Jersey, 08102
alwinphilip0105@gmail.com | www.alwinphilip.me | LinkedIn | GitHub

Summary

Graduate Computer Science student specializing in AI, machine learning, and secure web systems. Proven success in deploying AI models with high accuracy, improving productivity through AI training, and delivering impactful digital solutions.

Education

Master of Science – Computer Science Sept 2024 – Present
Rutgers University, New Jersey *GPA: 3.6*

Bachelor of Technology in Information Technology Sept 2020 – June 2024
Amity University, Noida, India *GPA: 3.8*

Technical Skills

Programming: Python, MySQL, C++, Kotlin, HTML/CSS, JavaScript

Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, NLP, Computer Vision, Generative AI

Frameworks: Django, Flutter, Firebase, Android Studio, GCP, AWS, WordPress

Tools: Git, Docker, Figma, Photoshop, Wireshark, VS Code, MS Office

Other: Project Management,Prompt Engineering, Leadership, UI/UX Design

Certifications

Cisco CCNA, Cisco CyberOps Associate

Google Cloud: Generative AI, LLMs, Image Captioning, Transformer Models

Google Cloud: Infrastructure Modernization, Security & Operations

Google Analytics Advanced

Experience

Data Science & AI Research Intern June 2025 – Present
Code-blue AI, UC Berkeley-affiliated Startup

- Developed real-time stroke detection using facial asymmetry and speech pattern analysis, achieving sensitivity/specificity above 90%.
- Improved speech recognition model accuracy to **98.9%** by expanding and diversifying training datasets.

AI Training & Prompt Engineering June 2025 - July 2025
Rutgers Business School & Thayer Distribution

- As part of graduate assistantship duties, designed and delivered training sessions on prompt engineering and AI tool integration for professional and corporate audiences.
- Instructed employees at Thayer Distribution on leveraging GitHub Copilot, Copilot for Microsoft Office, and AI assistants to automate workflows, increasing task efficiency by **20%**.
- Developed role-specific AI integration strategies to streamline repetitive tasks, enhance collaboration, and accelerate decision-making.

Marketing & Business Analyst – Web & Analytics Management August 2024 – Present
Rutgers-Camden School of Business

- Maintain and optimize GA4 tracking, ACT forms, and website content to improve user experience and conversion funnels.
- Analyze engagement metrics, traffic sources, and user behavior to guide data-driven marketing strategies.
- Collaborate on SEO, content design, and UI/UX improvements, leading to measurable increases in engagement rate and traffic acquisition.
- Fulfill cross-functional responsibilities typical of a marketing manager, including campaign performance analysis, audience segmentation, and website design enhancements.

Mobile App Developer Intern May 2023 – June 2023
Aeologic Technologies, Noida

- Designed checkout-optimized UI—15% faster process.
- Enhanced responsiveness by 25% through code reviews/testing.

Projects

The Park Company – Parking Finder Web App Sep 2024 – Present

- Mobile-friendly app with Stripe integration using Docker, PHP, HTML/CSS.

GitHub

Quantum Signal Processing for Classical Communication July 2023 – May 2024

- Applied quantum computing concepts + ML to enhance packet-switching.

GitHub

IntelliServe – Secure Federal Record Web App Dec 2022 – Jan 2023

- PHP/HTML/CSS system storing federal records as hashes for enhanced security.

GitHub

Research

Enhancing Cognitive Security through Integrated Behavioral Biometrics and Phishing Website Analysis

Ongoing research combining behavioral biometrics and phishing detection for advanced fraud prevention

- Developed a hybrid fraud detection model combining typing patterns, mouse dynamics, and touchscreen gestures with phishing website features such as URL structure, SSL status, and domain metadata.
- Implemented machine learning algorithms including XGBoost, Random Forest, and Neural Networks for real-time, context-aware classification of online activity.
- Achieved a 45% improvement in detecting unsafe sessions compared to models using only behavioral data, significantly enhancing threat detection accuracy.

Quantum Networking (IEEE ICRITO) May 2024

Hybrid quantum-classical secure communication research

- Explored quantum entanglement and QKD integration.

Digital Avatars & Metaverse Security (IJSA) Nov 2024

Blockchain-based privacy models

- Proposed privacy-preserving avatar interaction frameworks.

Awards & Achievements

1st Place – TECHNOVATE 2024 Poster & Project Presentation

Best Paper – IEEE ICRITO 2024

Most Promising Project – Tech-Genesis 2024

Bronze Award – Cisco NetAcad Riders 2023 (APAC)