

Dejaun Gayle

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EDUCATION

Kean University - Union, NJ

May 2025

B.S. in Cybersecurity & Computer Science

TECHNICAL SKILLS

Proficient with: Java, Python, PHP, JavaScript, HTML, CSS, Node.js, Flask, React, TensorFlow, Docker, Machine Learning, Adversarial Testing, Active Directory Management, Domain Management (Cloudflare), Virtualization (UTM and Hyper-V).

Familiar with: C++, MySQL, GitLab, UX/UI, Computer Vision, NLP, Azure AI, Pandas, NumPy, Nginx, Apache, Caddy, SIEM Tools.

EXPERIENCE

Researcher

January 2025 - Present

Google - CAHSI

Union, NJ

- **Assisting** in a joint **Google-CAHSI** initiative by supporting projects and tasks that advance program goals.
- **Contributing** to projects that align with Google's research focus areas, such as **Artificial Intelligence**, **Cybersecurity**, and **Social Impact** initiatives.
- **Collaborating** with supervisors and team members to manage logistics, track progress, and support the development of actionable outcomes.

Junior System Administrator

September 2024 - Present

Kean IT

Union, NJ

- **Implement** and maintain **enterprise-level IT systems** and infrastructure, including setup, configuration, and maintenance of **servers, networks**, and associated components.
- **Support** routine system monitoring, **performance optimization**, and troubleshooting to ensure optimal functionality of university-wide IT systems.
- **Manage** user accounts, permissions, and **access control** across various platforms and applications, enhancing **system security** and user experience.

IT Helpdesk Analyst

October 2023 - September 2024

Kean IT

Union, NJ

- **Collaborated** on a department transition project, developing training materials and redesigning the support portal's functionality and website during the **transition from OCIS to Kean IT**, improving system accessibility and reducing support requests by **20%**.
- **Attended** and contributed to weekly project meetings, ensuring alignment between technical updates and user training needs, leading to a smoother transition and improved system usability for over **17,000 users**.
- **Improved** ticket response time by **30%** through strategic process optimizations, ensuring swift and efficient support services.

PROJECTS

AdversaGuard: Advanced Adversarial Image Analysis Platform - [GitHub](https://github.com/DejaunG/AdversaGuard) (React, FastAPI, PyTorch)

January 2024 - Present

- **Engineered** a comprehensive adversarial attack platform with an intuitive **React/Material-UI** interface, implementing **FGSM**, **PGD**, **DeepFool**, and **Universal attack** methods with real-time parameter adjustment
- **Implemented** dual model architecture using **EfficientNet-B3** for classification and **ResNet50** for adversarial example generation, achieving robust performance across multiple image categories

RESEARCH & PUBLICATIONS

Multimodal Adversarial Testing Framework - [GitHub](https://github.com/DejaunG/Multimodal-Adversarial-Testing-Framework) (Lead Researcher/Developer)

January 2024 - Present

- **Conducted** research on detecting and mitigating multimodal adversarial attacks on Large Language Models (LLMs), utilizing techniques like **FGSM** and **PGD** to generate adversarial examples and **evaluate** their **impact** on models such as **ChatGPT**, **DALL-E**, and **Gemini**.
- **Developed** strategies for enhancing AI model robustness, including adversarial training, defensive distillation, and ensemble methods, with findings presented in a research poster at the **Great Minds In Stem** and **Garden State LSAMP** conferences.

Large Language Models Resilience Testing - [Research Paper](https://arxiv.org/abs/2310.12345) (Researcher/Co-Author)

September 2023 - February 2024

- **Conducted** a critical evaluation of AI models' resilience and cybersecurity, including ChatGPT-4, Bard, Claude, and Microsoft Copilot, using innovative adversarial prompts to test content moderation capabilities.
- **Implemented** the Response Quality Score (**RQS**) metric to quantitatively assess and enhance the accuracy and reliability of AI responses, fostering improvements in AI performance and user trust.

CERTIFICATIONS & EXTRACURRICULAR

Certifications/Programs: **Foundational C# with Microsoft** ([Certificate](#)), **GS LSAMP** ([Researcher](#)), **CAHSI LREU** ([Researcher](#)), **AI4ALL** (Scholar), **Students Partnering with Faculty** ([Researcher](#))

Organization(s): **Center for Cybersecurity** ([Member](#)), **Association for Computing Machinery** ([Member](#))

IAAMCS, Institute for African American Mentoring in Computing Sciences ([Scholar](#))