Dejaun Gayle

Edison, NJ 08817 · dejaun.scholar@gmail.com · (770)-624-0864

[Portfolio](#) · [LinkedIn](#) · [GitHub](#)

TECHNICAL SKILLS

Proficient in: Java | Python | JavaScript | C# | HTML | CSS | Git | Flask | React | TensorFlow | Machine Learning | Adversarial Testing | Bash | SSL/TLS | Raspberry Pi

Familiar with: C++ | SQL | Node.js | UX/UI | Computer Vision | NLP | Azure AI | Pandas | NumPy

EXPERIENCE

Junior System Administrator

Kean IT - Union, NJ   **September 2024 - Present**

- **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

Kean IT - Union, NJ   **October 2023 - September 2024**

- **Collaborated** on a department transition project, developing training materials and redesigning the support portal's functionality and website during the shift 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

FutureForge Project Database (2024) - [Link](#) *(React.js, Mantine UI, Raspberry Pi, Matplotlib, Apache, DuckDNS)*

- **Built** FutureForge, a personal project database hosted on a Raspberry Pi, by implementing SSL encryption with Let's Encrypt, automating certificate renewals using Certbot and DuckDNS for dynamic DNS management.
- **Configured** Apache to handle HTTP and HTTPS requests, with automatic redirection to HTTPS, ensuring secure access to the database with continuous SSL verification through cron job scheduling and custom Bash scripts.

AdversaGuard: Image Attack Analysis and Defense (2024) - [GitHub](#) *(Python, TensorFlow, Flask)*

- **Developed** AdversaGuard, a tool utilizing Fast Gradient Sign Method (FGSM) for generating adversarial examples and implementing detection and reversion techniques to protect image classification models from adversarial attacks.
- **Designed** and deployed an interactive web interface for real-time adversarial image generation and detection, leveraging Flask, TensorFlow, and Bootstrap.

Multimodal Adversarial Testing Framework (2024) - [GitHub](#) *(Lead Researcher/Developer)*

- **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 and DALL-E.
- **Developed** strategies for enhancing AI model robustness, including adversarial training, defensive distillation, and ensemble methods, with findings presented in a research poster at the GMIS conference (2024).

AI-Language Models Resilience Testing with Adversarial Prompts (2023-2024) - [Research Paper](#) *(Researcher/Co-Author)*

- **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.

HONORS, CERTIFICATIONS, & EXTRACURRICULAR

Research Program(s): **CAHSI LREU -** *February 2024* | **Garden State LSAMP -** *October 2023*

Students Partnering with Faculty (SpF) - Summer 2024

Bootcamp(s): **AI4ALL** (Scholar**)** - *January 2024*

Organization(s): **Center for Cybersecurity** (*Member***) -** *March 2023*

IAAMCS, Institute for African American Mentoring in Computing Sciences (*Scholar***) -** *August 2023*

Association for Computing Machinery (*Member***) -** *October 2022*

EDUCATION

Kean University - Union, NJ   **Expected Graduation Date:** May 2025

B.S. in Computer Science, Minor in Cybersecurity