

# Carmelo DiTomaso

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## EDUCATION

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### Purdue University

West Lafayette, IN

*Bachelor of Science, Computer Science & Artificial Intelligence*

AUG 2023 – MAY 2027

- Relevant Course Work: Data Structures, Computer Architecture, OOP in Java, Python & Data Engineering

### County College of Morris

Randolph, NJ

*Information Security Certification*

AUG 2020 – AUG 2021

- Relevant Course Work: Network Security, Information Security, Ethical Hacking and Systems Defense

## PROFESSIONAL EXPERIENCE

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### Software Engineering Intern

Sparta, NJ

*Techflex*

MAY 2025 – AUG 2025

- Designed, developed, and tested a Kotlin shipping microservice with FedEx, UPS, and USPS API integrations, applying scalable RESTful service design to migrate two Rails sites and a React TypeScript frontend, reducing redundant code and improving shipping reliability for thousands of international orders
- Collaborated in code reviews and modernized a 10k+ line Rails 5 application (upgraded to Rails 6), improving maintainability, automation, aligning with secure SDLC practices, and increasing test coverage by 12%+
- Standardized 300+ front-end templates by converting Slim files to ERB and removing inline JavaScript, reducing attack surface and strengthening maintainability, leveraging GitHub Copilot (GPT-4.1/5.0, Sonnet 4.7)

### IT Assistant

Jefferson, NJ

*Jefferson Township Public Schools*

FEB 2023 – AUG 2024

- Installed operating systems and configured laptops tailored for student use, ensuring optimal performance and software alignment with educational needs
- Executed precise laptop repairs by replacing components such as palmrests, keyboards, batteries, and screens, establishing minimal device downtime

## PERSONAL PROJECTS

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### Threat Dashboard

- Built a full-stack web application to query IPv4 addresses and deliver real-time threat intelligence (ISP, geolocation, open ports, services), leveraging automation strategies and secure API engineering with Shodan
- Designed and documented a React frontend with a Django backend for secure API handling, while implementing responsive UX features including dynamic states, error messaging, and active search indicators
- Followed secure development practices with environment variables and version control in GitHub, ensuring maintainability and safe configuration management

## LEADERSHIP & INVOLVEMENT

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### Kappa Sigma Fraternity

- Directed academic programming that raised overall chapter GPA by 0.2, supporting 70+ members in meeting academic goals
- Strengthened alumni relations by coordinating networking events with 50+ alumni, expanding professional networks and opportunities for members

## SKILLS

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Azure, C, Java, Kotlin, Spring Boot, Ruby on Rails, React, Django, SQL, Jira, Sentry, Postman, Bash, PowerShell