

# DANIELLE LIZ SANTOS

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## EDUCATION

### Drexel University

B.S. in Computer Science, Minor in User Experience and Interaction Design

Philadelphia, PA

Anticipated Graduation: June 2026

Relevant Coursework: Data Structures & Algorithms, Software Architecture, Software Verification & Validation, Web Development

## SKILLS

**Programming Languages:** Python, Java, C, Scala, HTML/CSS, JavaScript

**Tools & Platforms:** Git, CI/CD pipelines, AWS, Jira, Figma, Microsoft Office

**Libraries & Frameworks:** Node.js, Express.js, React, React Native, Pandas, NumPy, Matplotlib

**Development Practices:** Agile/Scrum, Test-Driven Development (TDD), Object Oriented Programming (OOP)

**Databases & Data:** SQL, ETL pipelines, Data Modeling

## PROFESSIONAL EXPERIENCE

### COMCAST

Philadelphia, PA

Software Engineer

September 2025 – Present

- Designed and deployed **Grafana** dashboard by writing optimized **SQL** queries and JSON configurations, creating custom panels and metrics that visualized complex datasets and delivered accurate, real-time insights to users.
- Implemented a scalable note-tagging system, integrating a **React** (Scala.js) multi-select UI with functional backend logic and database queries to support dynamic tag creation and criteria-based search.
- Debugged and resolved issues in a large-scale codebase, tracing problems across frontend state management, API request handling, and database queries to restore correct system behavior.

### J.P. MORGAN CHASE & CO.

Newark, DE

Data Automation Engineer

April 2024 – September 2024

- Automated the creation and configuration of 25+ **SQL** tables with a custom **Python** tool, reducing manual intervention and minimizing error rates by 40%.
- Streamlined email extraction and data processing workflows using **Python** libraries, automating 300+ data entries and validations per week.
- Curated 10+ data workflow diagrams and process maps, enhanced system architecture visualization and streamlining business processes, resulting in improved operational efficiency.

### THE WHARTON SCHOOL OF THE UNIVERSITY OF PENNSYLVANIA

Philadelphia, PA

Applications Developer

June 2023 – December 2023

- Leveraged Qualtrics **API** to create multiple test environments that customize survey interfaces with dynamic content, enhancing and personalizing participant experiences.
- Developed custom web scraping scripts that automated the extraction of 10,000+ research articles, reducing data collection time and improving departmental efficiency by 70%.

### IT Support Specialist

April 2023 – December 2023

- Resolved 10+ IT support tickets daily, efficiently managing high-volume requests and troubleshooting technical issues.
- Managed and administered Identity and Access Management (**IAM**) policies, roles, and permissions to ensure secure and compliant access control.

## PROJECTS

### EPICONNECT | Lead Backend Developer

July 2025 – Present

- Developed full-stack features using **Node.js**, **Express**, and **MongoDB**, implementing session-based authentication, medication tracking, and gamified functionality integrated with a **React Native** frontend.
- Built and tested end-to-end data flows across frontend and backend, optimizing API performance, validation, and error handling to ensure reliable behavior on iOS simulators (Xcode).
- Leveraged **AWS EC2** to host backend services and **AWS S3** for cloud storage, supporting reliable API access and application data management.

## LEADERSHIP EXPERIENCE

### Sigma Psi Zeta Sorority, Inc. | Secretary, Philanthropy Lead, Fundraising Chair

November 2022 – Present

- Served as primary liaison between national organization, university event services, and chapter leadership to coordinate approvals, compliance, and event logistics
- Documented and distributed meeting minutes for weekly executive and chapter meetings, improving accountability across 30+ members.

### Drexel Society of Asian Scientists & Engineers | Mentor

September 2023 – Present