

# Tony Drayton

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## EDUCATION

### Drexel University

*Bachelor of Science in Computer Science*

Philadelphia, PA

*Anticipated Graduation: June 2027*

- **GPA:** 3.81
- **Concentration:** Software Engineering, Machine Learning
- **Relevant Coursework:** Data Structures, Object Oriented Computer Programming, Advanced Programming Tools & Techniques, Math Foundations of Computer Science, Intro to Software Eng & Dev

## PROFESSIONAL EXPERIENCE

### Software Engineer Co-op

April 2025 – Sep. 2025

*Comcast*

*Mt. Laurel, NJ*

- Built an internal interface to query Cassandra databases for specific device data, improving team efficiency by 73% through clearer, human-readable outputs
- Collaborated with five interns to design and prototype an integrated feature for Xfinity X1 devices, presenting the final product to over 100 engineers at Comcast HQ
- Diagnosed and resolved a critical system issue that prevented 100,000+ customers' WiFi devices from resetting to default configurations, restoring normal functionality and reducing support tickets

### Junior Software Engineer

April 2024 – Sep. 2024

*AlumnIQ*

*Philadelphia, PA*

- Designed and implemented three webhook mail handlers, efficiently processing over 100,000 emails monthly and enhancing system responsiveness and saving over \$5,000 monthly
- Led the migration of over 30 different AWS Lambda functions from CommonJS (CJS) to ECMAScript Modules (ESM), significantly enhancing code maintainability and interoperability
- Enhanced software quality by developing extensive test cases and resolving over 10 critical bugs, resulting in improved system reliability and performance
- Engaged with customers at in-person events to gather valuable feedback, driving feature enhancements and significantly improving user experience

## PROJECTS

### DragonGPT | *Next.js, TypeScript, OpenAI, Flask, Python, Figma*

Oct. 2024 – March 2025

*Frontend Developer*

- Developed and designed the full-stack interface for DragonGPT using Next.js and TypeScript, collaborating with two other developers to integrate Flask and OpenAI APIs for real-time AI responses
- Gathered and analyzed feedback from 50+ users to refine chatbot interactions and UI flow, boosting user engagement by 30% through iterative testing and design updates.
- Presented the project at Startup Fest 2024 to a panel of six judges, competing for a \$5,000 prize and showcasing the platform's AI-powered conversational features

### Vaeleth Discord Bot | *Node.js, SQLite, Discord API*

Feb. 2019 – Jan. 2022

*Fullstack Developer*

- Developed and launched a Discord bot utilizing Node.js, SQLite, and Discord API, starting with minimal coding experience in 2019 and achieving verification on Discord in 2020
- Designed and implemented various features including an RPG economy system and moderation modules, contributing to its popularity among over 100,000 users across 200 servers at its peak
- Managed the project from the beginning while being a highschool student and track athlete

## TECHNICAL SKILLS

**Tools:** Node.js, Jira, Git, Figma, AWS

**Languages:** JavaScript, TypeScript, Python, C, Java, SQL, CFML, HTML/CSS

**Libraries:** React, Next.js, jQuery, Django, Tailwind, JUnit, Jest, Pandas, Flask, Redis, MongoDB, Postgres