

Tony Drayton

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EDUCATION

Drexel University

Bachelor of Science in Computer Science

GPA: 3.81

Anticipated Graduation: June 2027

PROFESSIONAL EXPERIENCE

Application Engineer

March 2026 – Present

Vanguard

Malvern, PA

- Spearheaded the migration of 7 federated micro-frontends from legacy Siteminder to OAuth/CREDaaS authentication, coordinating synchronized releases across teams to unblock an org-wide credential-modernization initiative
- Drove end-to-end ownership of the Cancel Order and Quick Ticket micro-frontends, delivering a real-time market Volatility Banner and resolving serious accessibility defects in partnership with the accessibility team
- Championed team-wide engineering improvements by leading a Cypress-to-Playwright E2E migration, driving an Angular 20 framework upgrade, and standardizing AI-agent onboarding across 10+ repositories
- Established platform configurability standards by decommissioning legacy Tealeaf analytics across 4 production applications and making the app-prefix meta tag optional across 7 MFEs, reducing PII exposure and streamlining host-app integration

Software Engineer Co-op

April 2025 – Sept. 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
- 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
- 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

Junior Software Engineer

April 2024 – Sept. 2024

AlumnIQ

Philadelphia, PA

- Created 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 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

TECHNICAL SKILLS

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

Libraries: Angular, React, Next.js, Lit, NestJS, Express, RxJS, NgRx, Redux, Tailwind, Flask, Jest, JUnit, Pandas

Tools: Git, Node.js, Playwright, Cypress, Storybook, Mirage, Webpack, Jenkins, AWS, OpenTelemetry, Honeycomb, Jira, Confluence, Figma