FIONA DARK

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Full stack software engineer with 1.5 years of experience building backend systems, real-time data pipelines, and distributed cloud-native applications. Skilled in C++, Python, and Java, with a focus on delivering reliable, production-ready code.

EDUCATION

Fordham University **September 2021 - May 2025**

Bachelor of Science in Computer Science

- **Honors:** Graduated *summa cum laude*, Dean's List (Fall 2021 - Spring 2025), recipient of the Herbert W. Bomzer Award in Computer and Information Sciences
- **Relevant Coursework:** Data Structures, Java Development, Algorithms, Database Systems, Operating Systems, Data Communication & Networks, Cybersecurity, Data Mining, Theory of Computation, Mobile Application Programming

SKILLS

- **Programming Languages:** C++, Python, Java, JavaScript, Kotlin, SQL, HTML/CSS, Swift/SwiftUI, Groovy
- **Developer Tools & Platforms:** VS Code, IntelliJ IDEA, Xcode, Gradle, Maven, Docker, Jenkins, AWS, Datadog, Linux, Bash
- **Frameworks & Technologies:** Git, GitHub, GitHub Spec Kit, Spring Boot, JUnit, Apache Kafka, Apache Flink
- **Databases:** PostgreSQL, MySQL, Apache Cassandra
- **Development Practices:** Agile methodology, Test-driven development, CI/CD principles, Version control, AI-assisted development
- **Professional Skills:** Written and verbal communication, Time management, Project management, Team collaboration

EXPERIENCE

Arity **May 2025 - September 2025**

Software Engineer Intern *Seattle, WA*

- Engineered a high-volume Kafka pipeline processing millions of daily trip events, leveraging Apache Flink for real-time data stream processing and transformation.
- Built and refactored backend services with Java Spring Boot, integrating with Apache Flink and applying extensive unit testing to deliver robust, production-quality applications.
- Developed and containerized backend components using Docker and Apache Cassandra to ensure scalable and reliable deployment within a distributed cloud-native environment.

Fordham University **August 2024 - May 2025**

Teaching Assistant *New York, NY*

- Reviewed, tested, and debugged student code in C++ and Python, conducting informal code reviews and providing detailed feedback on implementation and style.
- Conducted office hours and pair programming sessions for over 70 students, guiding them through debugging and problem-solving strategies and reinforcing proficiency in C++ and Python.
- Compiled comprehensive study guides on C++, searching/sorting algorithms, and object-oriented programming principles.

US Environmental Protection Agency **May 2023 - August 2023**

Software Engineer Intern *Seattle, WA*

- Redesigned the SQL data model for a national climate change database, reducing redundancy and improving query efficiency; designed and built a UI prototype and incorporated user feedback.
- Built a national website of climate change resources for Native American tribes; prototype helped secure $30,000 in federal funding for the project.
- Created and user tested an assignment tracking application using Microsoft Power Apps.

PROJECTS

Augur: The Free Tarot Tool

- Used Gradle and the Picocli library to create a Java command line application, unit tested the application using JUnit 5 to ensure code quality.
- Established connection to a REST API to provide reliable, randomized data.
- Designed an efficient and easily learnable command line interface to tell user's fortunes.

Nytelife: An NYC Nightclub App

- Developed an iOS nightlife app using Swift and SwiftUI, incorporating user authentication to deliver personalized bar and nightclub recommendations.
- Integrated third-party APIs to fetch dynamic club data and implemented a 'like' feature to promote user-preferred venues.