

# Ahmed A. Abdulla

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## EDUCATION

**Cornell University, College of Arts & Sciences**

Ithaca, NY

**Major:** Computer Science, **Minor:** Data Science.

Expected May 2027

**GPA:** 3.7; **Honors:** Dean's List (2023)

**Coursework:** Computing in Python, OOP & Data Structures (Java), Data Science, Frontend & Backend Development, Functional Programming (OCaml) & Discrete Mathematics

## PROFESSIONAL EXPERIENCE

**Iconectiv** | *Software Engineer Intern* | Bridgewater, NJ

May 2024 - Aug 2024

- Developed an internal tool to scrape, clean, and load data from the U.S Geographic Names Server using Pandas and SQL
- Built a connected frontend with AngularJS and PrimeNG to seamlessly display the data loaded for internal teams.
- Configured the software for automatic quarterly data refreshes, with built-in reporting to monitor and enhance data accuracy.

**DaliaHealth** | *Frontend developer & CDO* | Ithaca, NY

Sep 2023 - Present

- Led design and development of a patient and doctor web app using ReactJS, Flask, Firebase, Axios and Tailwind, focusing on user-friendly UI.
- Secured doctor access, integrated SendGrid, added PDF export for diagnosis results, enhancing backend functionality
- Served as the frontend lead for the company's mobile app, using SwiftUI to create an intuitive interface and optimize real-time data handling.

**Carve Food Emporium** | *Assistant Manager* | New York, NY

Jan 2018 - Apr 2022

- Oversaw daily operations and led a team of 15 staff members, ensuring efficient service and customer satisfaction.
- Managed inventory, scheduling, and vendor communications, improving operational efficiency by ~15%.
- Developed strategies to increase online sales and customer engagement, resulting in a ~8% growth in revenue.

## PROJECTS

**Interactive Image Selection Tool**

Apr 2024

**Technologies Used:** Java, Swing, Dijkstra's Algorithm, Min Priority Queue

- Developed an image selection tool with the Intelligent Scissors, enabling precise edge selection using Dijkstra's algorithm
- Designed responsive Java Swing GUI, allowing users to switch modes and visualize algorithm progress in real-time.
- Implemented custom weighting functions for edge detection, improving the accuracy of selections on diverse image types.

**RPN Calculator and Expression Evaluator**

Mar 2024

**Technologies Used:** Java, JUnit

- Developed an interactive RPN calculator that efficiently evaluates complex mathematical expressions.
- Designed and implemented custom data structures, including expression trees and a stack-based parsing algorithm, to support dynamic evaluation of formulas.
- Conducted rigorous testing using JUnit, writing comprehensive test suites to ensure accuracy and reliability of the expression evaluation and parsing logic.

**ChatApp**

Aug 2023

**Technologies Used:** ReactJS, Firebase, Google Authentication

- Implemented real-time messaging functionality, enabling private and group chats for users authenticated via Google.
- Integrated Firebase for dynamic data handling and storage, ensuring efficient real-time updates and user data management.
- Utilized React for building a responsive and interactive UI, enhancing user engagement and application performance

## SKILLS/INTERESTS

- Languages:** Java, JavaScript, TypeScript, Python, Swift, OCaml, SQL & HTML/CSS
- Frameworks:** ReactJS, Node.js & Flask
- Libraries:** NumPy, Pandas, Scikit-learn, ReactJS, Axios, Tailwind CSS, JUnit & SwiftUI
- Tools:** Git & Firebase
- Interests:** Soccer, Traveling, Biking, Language Learning & Reading