

Mohamed Abdalla

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SUMMARY

Highly skilled in Software Engineer role through academic, internship, and project-based experience. Proficient in React, TypeScript, Node.js, Next.js, Python, R, SQL, and Java; skilled in Agile/Scrum, CI/CD, unit testing, and performance optimization. Proven track record of leading cross-functional teams and providing solutions to improve efficiency and user experience.

EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Bachelor of Science, Computer Science; Minor Electrical & Computer Engineering, May 2025; GPA: 3.22; Dean's List 4 semesters

Relevant Courses: Analysis of Algorithms; Data-Driven Web Applications; Intro to Machine Learning; Embedded Systems; Foundations of Artificial Intelligence; Intro to Database Systems

Awards: Jacobs Irwin's Scholar (Academic) | AP Scholar with Distinction | Oakton Honor Graduate | Grand Award for Minorities;

CERTIFICATIONS

[Front-End Web Developer Bootcamp: HTML, CSS, JS & React – Udemy, June 2025](#) | [React & TypeScript - The Practical Guide - Udemy, June 2025](#)

RELEVANT EXPERIENCE

Etsy (Remote), Software Engineer Intern, Cornell University May 2021 - Aug 2021

- Worked as a front-end Software Engineer intern at Etsy, focusing on enhancing the User Interface (UI) experience for sellers.
- Collaborated with the development team to implement UI improvements and optimize the seller's workflow.
- Utilized programming languages and technologies such as React and TypeScript.
- Assisted in identifying and resolving UI issues, ensuring a seamless and user-friendly experience for sellers.
- Contributed to team meetings and discussions by providing insights and ideas for UI enhancements.
- Gained hands-on experience in a real-world software engineering environment by working with a team of professionals in an e-commerce industry leader.

ADDITIONAL EXPERIENCE

NBA Shot Predictor, Vienna, VA, Machine Learning Project Lead March 2025 - May 2025

- Built a full-stack Flask ML web app predicting NBA shot outcomes using a LightGBM model on 50K+ real shots, integrating Python, Pandas, and HTML/CSS/JS for interactive team simulations.

COVID-19 Hospitalization Prediction, Ithaca, NY, Machine Learning Project Lead, Cornell Univer April 2021 - May 2021

- Developed a full ML pipeline in Python, R, and Java that predicts weekly hospitalization trends from start to finish with 79% accuracy.
- Generated SQL queries and data visualization with MATLAB to validate datasets from multiple countries.
- Organized a 4-person team in Agile sprints and ensured consistent delivery of milestones while managing project scope and timelines.

Blokus, Ithaca, NY, Project Team Member, Cornell University Nov 2020 - Dec 2020

- Created a text-based version of the board game Blokus in OCaml, applied functional programming, abstraction, and modular programming to simplify game functionalities.
- Collaborated with three teammates to implement and integrate game rules and functionalities, developed separate Player, Game, and Main modules to create the final text-based version of Blokus.

IOT Sauron, Ithaca, NY, Project Team Member, Cornell University April 2024 - May 2024

- Developed computer vision algorithms using OpenCV for accurate face and color detection, enabling dynamic camera tracking, and designed a multi-camera streaming system on Raspberry Pi to provide real-time video feed accessible via web browsers.
- Configured and fine-tuned the servo motor control system using PD controllers and PWM signals for precise and smooth camera movements, ensuring high performance and responsiveness.

SKILLS

Python, Java, C++, JavaScript, TypeScript, PHP, OCaml, R, MATLAB, SQL, HTML, Bash. React, Node.js, Next.js, Git, JIRA, Postman, OpenCV, Jest, React Testing Library, Raspberry Pi/Linux tools, OOD, System Design, Agile/Scrum, CI/CD, Unit Testing, Automated Testing, Debugging, Performance Optimization, Secure Coding Practices, Linux, VS Code, Cross-functional team lead (COVID project), Tutor, Hall Council President

AFFILIATIONS

Underrepresented Minorities in Computing | **National Society of Black Engineers**, Cornell University, Member