

# Ayman Abdalla

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## EDUCATION

### University of Texas at Arlington

Bachelor of Science in Software Engineering, Certification in Cybersecurity

Expected Graduation: Dec. 2024

Arlington, TX

### Texas A&M University at Corpus Christi

Bachelor of Business in Marketing

Aug. 2014 - Dec. 2018

Corpus Christi, TX

## SKILLS

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

**Technologies:** Git, Node.js, React/Next.js, MySQL, MongoDB, Azure, AWS, Docker, Kubernetes, Jira, Flask, JUnit

**Methodologies:** Software Design Patterns, Agile, Scrum, OOP, Functional Programming

## EXPERIENCE

### Software Engineering Fellow

Headstarter AI

July 2024 - Present

Dallas, TX (Remote)

- Building **5 AI-driven projects** during an intensive 7-week program achieving a 100% project completion rate.
- Developing proficiency in HTML/CSS, React/Next.js, Firebase, OpenAI, AWS EC2/Lambda, Authentication, Payment, and Vector Databases.
- Implementing deployment strategies that improved application **efficiency by 30%** optimizing overall performance.

### Undergraduate Teaching Assistant - Theory of Computation

University of Texas at Arlington, CSE Department

Aug. 2023 - Dec. 2023

Arlington, TX

- Delivered one-on-one support to **over 50 students** during weekly office hours, addressing questions or concerns, and clarifying any doubts related to course content.
- Graded assignments and exams promptly, maintaining a **48-hour turnaround time**, and offered constructive feedback.
- Updated course materials, including lecture notes, problem sets, and exam questions, leading to an increase in student comprehension and engagement.

## PROJECTS

### Project In | Python, TypeScript, MongoDB, Next.js, Node.js

May 2024 - Present

- Led development** on a dynamic platform aimed at empowering creators to showcase their software projects to developers, enthusiasts, and potential collaborators.
- Designed a flexible tagging system for project categorization, **supporting 50 predefined tags** for programming languages and frameworks, with users adding over **30 more custom tags** for personalized project categorization.

### UrbanStays | TypeScript, Tailwind CSS, MongoDB, Prisma, Next.js, Node.js

April 2024 - May 2024

- Developed a full-featured Airbnb clone resulting in a scalable web application with a modern UI capable of booking and **managing over 20 property types**.
- Built search functionalities with filters for **10+ criteria**, including location, price, and amenities, which improved user search accuracy and satisfaction.
- Integrated payment processing and booking features, **achieving 90% user satisfaction** in feedback surveys and improving the overall functionality of the application.

### PixEra | Python, JavaScript, MongoDB, React.js, Flask

Aug. 2023 - Dec. 2023

- Implemented streamlined booking and reservation features, which **improved user acquisition by 40%** resulting in a doubling of average monthly bookings processed.
- Conducted extensive testing **running 1000+ test cases** to validate the new functionality ensuring the stability and reliability of our code.
- Utilized GitHub's issue tracking system to actively **manage and resolve 30+ issues**, enhancing team communication and task efficiency.
- Actively **collaborated in 15+ code reviews**, offering valuable feedback and suggestions which improved code quality, identified bugs, and ensured compliance to best practices.