Ayman Abdalla

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EDUCATION

University of Texas at Arlington — Arlington, TX
Bachelor of Science in Software Engineering — *Expected Graduation: December 2024*

Texas A&M University at Corpus Christi — Corpus Christi, TX
Bachelor of Business in Marketing — *August 2014 – December 2018*

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: Agile, Scrum, OOP, Functional Programming, WaterFall

EXPERIENCE

Headstarter AI — Dallas, TX (Remote)
Software Engineering Fellow — *July 2024 – Present*
- 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.

University of Texas at Arlington, Department of Computer Science — Arlington, TX
Undergraduate Teaching Assistant − Theory of Computation — *August 2023 – December 2023*
- 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.

Red-Blue Nim Game | *Python, Bash, Git* — April 2024 - May 2024
- Created a tactical decision-making game that allowed players to select blue and red marbles while avoiding depleting either pile to 0 marbles on their turn.
- Developed a computer agent utilizing the Minimax algorithm to analyze possible moves and select the optimal strategy against human players, achieving an **average success rate of 90**% in defeating human opponents.
- Integrated user-friendly interfaces and graphical elements, resulting in an interface with a **usability score of 4.5/5** as per user feedback.

PixEra | *Python, JavaScript, MongoDB, React.js, Flask* — August 2023 - December 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.