Ian Oxley

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Education

Arizona State University - Ira A. Fulton Schools of Engineering, Graduation: Fall 2023
- **Major:** Computer Science
- **Relevant Courses:** Principles of Programming Languages, Data Structures and Algorithms, Responsive Web Design, Linear Algebra, Calculus III, Object-Oriented Programming, Database Management, Information Assurance, Intro to Software Engineering
- GPA: 3.6

Arizona College Preparatory - Erie: 2020 Graduate
- Unweighted GPA: 3.6 Weighted GPA: 4.2

Special Skills and Interests
- **Computing:** Experience working with Python, Java, C, C++, HTML/CSS/JavaScript, Swift5
- **Athletics:** Participated in swimming, track, soccer, basketball, and weight training
- **Music:** Played Alto Saxophone for 8 years, being a part of the high school Symphonic Band for 4 years

Experience

Arizona State University - Ira A. Fulton Schools of Engineering (8/2020 - Present)
- Received HTML, CSS, Bootstrap Specialist, and Intercultural Skills certification
- Awarded Dean's list for both spring 2020 and spring 2021
- Competed in WiCs programming competition, placed second for lower division undergraduates
- Contributed to engineering-based clubs such as the Asian society of Engineers and SODA
- Participant in outdoors clubs such as Snowdevils, AOC, Adventure Devils, and Intramural Soccer

FedEx Grounds/Express (5/2021 - Present)
- Promoted to Primer, Arriving at 3:00 A.M to help set up work areas and handle early packages
- Organizes lost packages, bad labels, and misloaded trucks
- Trained in HAZMAT handling with multiple safety meetings per month
- Package Handler of the Month nominee

Grassroots Soccer Referee Program (1/2018 - 5/2021)
- Received Referee certification for Grassroots leagues through the AZRef training system
- Trained thoroughly in identifying suspicious behavior and speaking up or reacting when I see it
- Experienced in emergency response, having multiple instances of player injury and finding them medical attention
- Worked as both a referee and assistant referee, up to Division 1 U19 Boys
- Proficient leader, commanded the field and the flow of play

Projects

C++, C, C#, Java, Python
- Coded Dijkstra's shortest path algorithm, calculates the shortest path through user input of cities and distances
- Wrote Kruskal's algorithm computation, creates a minimum spanning tree based on user inputs
- Developed a basic compiler, utilizing a lexer to parse each character of the program and a complex structure to parse the syntax of the program. Can analyze the validity of variables, for statements, while statements, if statements, math operations, and scope.
- Took part in a restaurant menu GUI, including functions such as a login screen, displaying an interactive menu, ordering, payments, saving information, and editing the menu as an admin.
- Programmed a python CSV parser, which can download stocks CSV files online, can return the mean, range, greatest, lowest, and perform basic comparisons between the values

HTML, CSS, Bootstrap, Javascript
- Created a responsive personal bio page, containing a dropdown navbar, parallax background, animation, and functional contact info
- Contributed to a matching game, coding javascript handling sound effects, matching algorithms, reset functions, and tracking statistics
- Designed math calculator, taking two numbers as user input and calculating a math operation based on a button called
- Built responsive hotel management webpage, utilizing containers, rows, custom fonts, and reactive custom buttons

Circuits Capstone
- Mimics a fully functional wheelchair, containing functions for forwards, backward, turn left, and turn right.
- Constructed using Digital machine designing software, utilizing JK and D flip flops and many state transition tables and diagrams

Skills and Knowledge

Coding and Programming
- Familiarity with python based Information Assurance and working with Ubuntu Linux machines and GitHub
- app developer, utilizing Swift 5 and Storyboard in XCode

Engineering Concepts
- Trained in programming and analytical skills, possessing advanced knowledge of UML diagrams, sequence models, pseudocode writing, JUnit tests, ER Diagrams, SQL-based analysis, and determining ports with Wireshark