ALEX CHRISTOPHER LAYTON

Chandler, AZ 85225 ♦ 480-765-3896 ♦ alexlayton2012@gmail.com

EDUCATION

Bachelor of Computer Science
Arizona State University - Tempe, AZ
Graduated: May 2024
Relevant Coursework: Data Structures and Algorithms, Operating Systems/Computer Security, Database Systems, Web Development, Object-Oriented Programming, Human-Computer Interaction, Probability and Statistics, Computer Architecture

Associate of Applied Science
Chandler Gilbert Community College - Chandler, AZ
Graduated: May 2019
Relevant Coursework: Introduction to Programming, Web Development, Data Analysis and Modeling, Mobile Application Development

Key Projects:

ASU VIPLE Machine/Algorithm Learning

- Integrated traversal algorithms (A*, Dijkstra's, Bellman-Ford, Floyd-Warshall) into a 3D traffic simulator using C and Python.
- Maintained effective communication through bi-weekly sprint meetings with sponsors.

iOS Weather Service Application

- Developed an iOS app using Swift and Storyboard for real-time weather updates.
- Incorporated dynamic background images reflecting current weather conditions.

Mock Social Media Startup

- Designed and implemented a TypeScript-based application resembling Instagram with SQL/MySQL for data management.
- Developed features such as friend management, commenting, and liking posts.

Merchandise Website Re-amp / Axure RP Project

- Revamped a website using Axure RP to enhance user-friendliness and modernize the design.
- Conducted user surveys to gather feedback and improve usability.

WORK HISTORY

Computer Science Intern
Microchip Technology – Chandler, AZ
May 2021 - May 2023

- Developed and tested REST, PUT, and POST API calls using TypeScript/C.
- Automated database updates with SQL queries and stored procedures.
- Contributed to an automated translation tool project, using Angular and TypeScript.

<u>**Key Project:**</u>

Automated Translation Tool

- **Role:** Contributed to the development of a translation tool akin to Google Translate.
- **Technologies:** Angular, TypeScript, Visual Studio Code.
- **Responsibilities:**
    - **API Integration:** Led the integration of various APIs to handle translation requests and responses. Designed and implemented RESTful API calls, including REST, PUT, and POST methods, to facilitate communication between the front-end and back-end systems.
    - **Development & Design:** Utilized Angular and TypeScript to build and design the application's interface and core functionality.
    - **User Interface:** Employed CSS, HTML, and Bootstrap to create a user-friendly and visually appealing design, ensuring a seamless integration with the application's functionality.

Assembly Mechanic
Honeywell Technology (PDS Technology) – Phoenix, AZ
May 2023 - November 2023

- Assembles and disassembles Data Memory Module (DMM) products.
- Performs soldering and testing of DMM units to ensure functionality.

Manufacturing Technician Level 2
Intel (Infotree Global Solutions) – Chandler, AZ
November 2023 - September 2024

- Operate and manage semiconductor test panels, coordinating their movement through various machines and processes.
- Troubleshoot and initiate startup procedures for machines, ensuring proper functioning and adherence to process requirements.
- Analyze measurement data to assess the integrity and safety of test panels, making informed decisions on whether they are ready to proceed to the next stage of production.

SKILLS

- **Software Development:** Agile Methodology, Git, JIRA, Visual Studio, Eclipse, Java, TypeScript, iOS Development, C++, C#, SQL
- **Web Development:** Angular, HTML, CSS, JavaScript, Bootstrap, REST API, HTTP, Axure RP 10, Linux, Wireshark
- **Database:** SQL Server, MySQL, PostgreSQL, Oracle, Microsoft Access
- **Professional Skills:** Analytical Thinking, Problem-Solving, Teamwork, Collaboration
- **Office Tools:** Microsoft Office Suite (Word, Excel, PowerPoint), Google Workspace (Docs, Sheets, Slides)