**James Abitria**

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**Summary of Qualifications**

* Experience with multiple coding languages: C/C++, C#, Java, JavaScript, Python
* Strong understanding of software design principles employed in projects, coursework, and experience
* Strong math background, analyzes relevant information quickly to find solutions
* Avid learner, passionate about project creation and development, eager to work on a variety of projects and expanding knowledge of programming

**Education**

* **Bachelor of Science in Software Engineering; GPA 3.92 –** Washington State University – Pullman Campus (expected May 2027)
  + **Relevant Coursework:** Advanced Data Structures, Intro to Computer Architecture, Language & Formal Automata, Linear Algebra, Discrete Structures

**Skills**

* C/C++, Java, JavaScript, Python; Ubuntu through WSL; consistent work ethic, analytical and thorough; strong communication skills and public speaking shown in “Other Experience”

**Projects**

* Hexapawn Computer Engine – personal project (summer 2024)
  + Uses general tree data structure to run a basic machine learning algorithm
  + Starts playing random, then notes losing moves and avoids those decisions
* Random Maze Generator – personal project (summer 2024)
  + Utilizes iteration and vectors to store valid maze paths and generates branches of a maze
  + Performs a depth-first search using a stack to record dead ends to solve the maze

**Experience**

* **CPT\_S 121 TA** – (Aug 2024 – Dec 2024) Washington State University, Pullman WA
  + Ran lab sections once a week, held office hours twice a week assisting students
  + Explained concepts of C programming to beginner CS students
  + Reinforced good program design principles, analyzed errors in student programs to debug and explain how errors appeared.

**Other Experience**

* **Class Assistant/Assistant Instructor –** (Dec 2021 – May 2023) CD Young’s Karate, Henderson NV
  + Instructed 80-100 students per day, 2+ times a week
  + Interacted with families and customers of all ages and various backgrounds/cultures
  + Reinforced strong work ethic with consistency of shifts, events, team trainings