

Alexander Williams

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Education

University of Central Florida AUG 2020 – AUG 2024
Burnett Honors College @ UCF
Bachelor's in Computer Science — Minor in Business – Graduated Magna Cum Laude – GPA: 3.92

Work Experience

CLUB CAR, *Software Engineer Intern* MAY 2023 – AUG 2023

- Created a C# application using REST API that was connected to a Microsoft IIS server to automatically parse and insert 100,000+ records of SIM card data every month
- Designed a SQL database to host over 1,000,000 records organized by date, SIM number, and usage
- Generated Excel sheets and graphs for AGILE development for the 2 week sprint process over 3 months
- Improved analysis of data consumption for decisionmakers

HRA CONTROL SERVICES (Startup), *Software Engineer Intern* MAY 2021 – AUG 2021

- Designed a SQL database to organize over 100 customers' information
- Automated the database to check for redundant/false records
- Improved day-to-day operations for the company's interaction with customers

DICKS SPORTING GOODS, *Sales Associate* OCT 2020 – JAN 2021

- Worked as a sales associate to fulfill merchandise, assist customers, and answer phone calls
- Maintained employee goal of registering 60% of customers as store members

Projects and Applications

SIM GPT (*Python, Unreal, C++, Git, Jira*) AUG 2023 – MAY 2024

- Utilized over 3 machine learning models in Python to generate over 150 unique Unreal Engine environments and assets based on a user's text input
- Improved development of simulations for the Air Force and achieved text to game environment

DATA SCIENCE APPLICATION (*Python, TensorFlow, Pandas*) AUG 2022 – JAN 2023

- Developed a Python application to take over 1000 values and run data analysis and prediction tests
- Used concepts such as regression, CNNs, and reinforcement learning

RECIPEFY (*React JS, Node, Git, HTML, MongoDB*) AUG 2022 – DEC 2022

- Implemented a full-stack web application hosted on a server using React JS
- Supported over 100 users and enabled them to interact by following, sharing posts, and commenting

Leadership and Activities

UCF COMPETITIVE PROGRAMMING JAN 2024 – MAY 2024

- Participated in over 15 competitive programming contests utilizing data structures and algorithms
- Entered competitions such as USACO, LeetCode, HackerRank, and Kattis using Java
- Utilized concepts such as binary trees, dynamic programming, backtracking, Dijkstra's algorithm, etc.

SOCIETY OF ASIAN SCIENTISTS AND ENGINEERS, *Vice President* APRIL 2022 – AUG 2023

- Directed outreach program that increased member interaction by 25% and new member signup by 40%
- Organized member meetings, volunteering events, and professional development workshops

COMPUTER STAR FOUNDATION, *Vice President* AUG 2020 – MAY 2022

- Collaborated with partners to develop workshops and obtain sponsorships
- Conducted educational events and camps for youth participants interested in STEM

Core Skills

Languages/Frameworks: Java, JavaScript, Python, C, C++, C#, SQL, HTML, CSS, React, Unreal Engine, .NET
Tools: Microsoft Teams, Azure, DevOps, Jira, Git, Docker, Microsoft IIS, Virtual Environments, Microsoft Excel Certified, SQL Server Management Studio, Adobe Dreamweaver, Stable Diffusion XL
Coursework: Data Structures & Algorithms I and II, Team Dynamics and Competitive Programming, Object Oriented Programming, Machine Learning, Discrete Math II, Systems Software, Mobile Development