Alexander Shiveley

Permanent Address
(Hidden)

shivelat@mail.uc.edu

Education

University of Cincinnati / Ohio

College of Engineering and Applied Science

- Bachelor of Science, Computer Science — GPA 3.922 | August 2022
- ACCEND Master of Science, Computer Science
- Physics Minor

Fairfield Senior High School / Fairfield, Ohio — GPA 4.644 | Class of 2018

- AP Computer Science A, Calculus BC, Statistics, Physics C, English, US History

Programming Languages & Technical Skills

- C++, C#, Java, Python, MATLAB, Julia, Visual Basic, HTML, CSS, JavaScript
- MSSQL Server, Oracle, SQLite, Ant, Maven, Jenkins, Qt, .NET Framework/Core, Microsoft Word, Excel, PowerPoint

Co-op Experience

Software Engineer Co-op — January 2020 – August 2021
NLign Analytics, Cincinnati, OH

- Contributed on large software features from requirements to implementation in C++ client and Java server applications
- Debugged, tested, and resolved defects and performance issues in the interactions between the client, server, and databases
- Developed analysis scripts for internal build processes and server configuration comparisons

Experience & Activities

Study of the Effect of Noise in Quantum Computing — August 2021 – present
University of Cincinnati, OH

- Undergraduate Senior Design project exploring the effects of noise in quantum computing algorithms including quantum teleportation and Grover search algorithm
- Simulating quantum systems in a MATLAB environment and analyzing the results

Portfolio showcasing the below projects and more: https://ashiveley.github.io/Portfolio/

Game Randomizers — October 2018 – present

- Implementing a WPF .NET desktop application to allow users to choose constraints used in random search and fill algorithms
- Exploring concepts of data encoding/decoding and improving database skills

Android App Development — June 2018 – June 2019

- Developed a prototype of a mobile app in Java and C# Xamarin to read labels on heating units with 90% accuracy and export data to an Excel format

Gripper for Individuals with Limited Mobility — January 2019 – May 2019

- Worked with a team to focus on engineering design processes by prototyping a gripper utilizing an Arduino and laser-cut parts

UC Cubecats CATiSE and LEOPARD — August 2018 – January 2020
Fairfield HS Engineering Club — August 2017 – June 2018
Fairfield HS Peer Tutoring — August 2017 – June 2018

Availability

- Available for an internship/co-op in Summer 2022