

# Alexander Shiveley

**Permanent Address**  
(Hidden)

**Temporary Address**  
(Hidden)

shivelat@mail.uc.edu

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## Education

### University of Cincinnati / Ohio

Class of 2023

College of Engineering and Applied Science

GPA 3.908

- Bachelor of Science, Computer Science
- ACCEND Master of Science, Computer Science
- Physics Minor
- University Honors Scholar

### Fairfield Senior High School / Fairfield, Ohio

Class of 2018

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

GPA 4.644

- Wright State University EGR1010 Math for Engineering Applications

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## Technical Skills & Foreign Languages

- C++, C#, Java, Python, Visual Basic, MATLAB, LabVIEW, HTML, CSS, JavaScript, Microsoft Word, Excel, PowerPoint, Publisher, Outlook
- German (basic), Chinese Mandarin (basic)

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## Experience & Activities

Portfolio showcasing these and other projects: <https://ashiveley.github.io/Portfolio/>

### Game Randomizer

October 2018 – present

- Coded in C++, with a UI created using C# WinForms, the program runs other tools to extract the files, and then reads the binary data, modifies the data, and then replaces the original data
- Uses pathfinding and other algorithms for grids, probability distributions, and condition checking to ensure the game is as playable as possible

### Android App Development

June 2018 – present

- Developing an app that successfully reads labels on heating units with 90% accuracy and then exports the data to an Excel format
- Migrated from Java to C# Xamarin in January due to text recognition failure in Java

### Gripper for Individuals with Limited Mobility

January 2019 – May 2019

- Worked with a team focusing on the design process of prototyping a gripper utilizing an Arduino and laser-cut parts

### Memberships

- UC Cubecats LEOPARD Power Subsystem August 2019 – Present
- UC Cubecats CATISE High Altitude Balloon Program August 2018 – May 2019
- Fairfield HS Engineering Club August 2017 – June 2018
- Fairfield HS Peer Tutoring August 2017 – June 2018

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## Awards & Scholarships

- University of Dayton Team Math Competition 1st place March 2018
- AP Scholar with Distinction July 2018
- UC Cincinnati Scholarship – Various volunteer work 2018 & 2019
- UC College of Engineering and Applied Science Scholarship May 2018

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## Availability

- Available for co-op on alternating semesters beginning Spring 2020