

# Arvin Lin

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**Objective:** To secure an internship or full-time job beginning Summer 2021 within the field of Computer Science or Robotics

## Education:

Syracuse University, College of Engineering and Computer Science (ECS)

May 2021

Bachelor of Science Computer Science, **GPA:** 3.38/4.0

Study Abroad, London Center: Computer Science

Fall 2019

## Skills:

*Programming Languages:* Python (200+ line of codes), Java (200+ line of codes), C++ (500+ line of codes), Arduino (50+ line of codes), C, JavaScript (100 + line of codes), HTML5 (500+ line of codes), SASS (500+ line of codes), CSS (500+ line of codes), MIPS (200+ line of codes), Haskell (100+ line of codes), DAX, SNAP!

*Technical:* Visual Studio Code, Visual Studio, Ubuntu Linux, WinSCP, Creately, Tinkercad, Adobe (Illustrator, XD), Soldering

*Other:* Microsoft Suite (PowerPoint, Word, Excel, Power BI, Teams), Google Suite (Slides, Docs, Sheets), Zoom, Slack

*Spoken Languages:* English (Fluent), Mandarin (Conversational), Fuzhounese (Conversational)

**Relevant Courses:** Controls of Robots, Intro. to AI, Intro. to Cryptography, Intro. to Web Development, Software Specification and Design, Linear Systems, Design Operating Systems, Intro. to Computer Graphics, Analysis of Algorithms, Data Structure

## Relevant Work Experience:

**SSS/HEOP Academic Consultant**, Tutor, Syracuse, NY

January 2020 – Present

- Tutored for at least 2 hours and 3 times a week to SSS/HEOP engineering students on programming and mathematics to provide extra academic support

**Johnson Controls**, Intern, Syracuse, NY

July 2018 – August 2018

- Established accessible data analytics dashboard (*Know Before You Go*) in coordination with Analytics and Customer Care Departments showcasing over 50 data visualizations utilizing **Power BI** and **DAX** to be used by Customer Care Department
- Shadowed application of SQL for all dataset implemented in *Know Before You Go* dashboard

**Invent@SU**, NarFan, Participant & Competitor, New York, NY

May 2018 – June 2018

Provisional Patent (See: invent.syr.edu) (Application#: Not Applicable Filed: 06/11/2018)

- Competitively selected to participate in an intensive six-week program in which a partner and I prototyped, and pitched our invention, NarFan weekly for critique to Syracuse alumnus and sponsors of Invent@SU
- Assembled a rechargeable fan with three flexible deflectors to redirect air flow, repel mosquitoes, and keep users cool

## Engineering Applications:

**Bio-inspired degradation for PE Wastes using Biofilms of Bacillus sp. YP1**, Research

August 2020 – Present

- Researched on how waxworm consume polyethylene plastics and in relation to solving existing plastic pollutions
- Developing project proposal for possible grant called SOURCE grant for Spring 2021

**Classic Pacman Search Algorithms**, Intro. to Artificial Intelligent

September 2020 – September 2020

- Implemented different search algorithms utilizing **Python** such as Breadth First Search, Depth First Search, Uniform Cost Search, A\* Search, Eating All The Dots: Heuristic, and Suboptimal Search for Pacman to find its path through a maze
- Collaborated with a classmate to execute Reflex Agent, Minimax, Alpha-Beta Pruning, Expectimax, and Evaluation Function algorithms to design agents for a classic version of Pacman, including ghosts

**House of Madness**, Intro. to Computer Graphics

April 2020 – May 2020

- Utilized **C++** to create an interactive Harry Potter themed house using a keyboard to turn on/off lights, hold a flashlight in front of the user, open door, and a hat that randomized a house to be placed in

**Crowd Flow, CuseHacks**

April 2019 – April 2019

- Worked in team of 4 to create a website that uses API map to calculate density of each location in Syracuse University and used **HTML/CSS/JavaScript** to design a website

## Leadership/Activities:

ECS Dean's Advisory Panel (DAP), Member

March 2020 – Present

Engineering World Heath, Member

December 2018 – Present

ECS Ambassador Scholar, Ambassador Scholar

February 2018 – Present

ECS NYC Immersion Trip Winter 2020, Participant

January 2020 – January 2020

Society of Asian Scientists and Engineers (SASE), Community Outreach Chair

January 2019 – May 2019

ECS Silicon Valley Immersion Trip Spring 2019, Participant

March 2019 – March 2019

Qubit - Job Shadow with a Syracuse alumni, Participant

December 2018 - December 2018