Arvin Lin

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Objective: To obtain a full-time job beginning of Summer 2021 at Boston Dynamics in the field of Computer Science and 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), C++ (500+ line of codes), Java (200+ line of codes), HTML5 (500+ line of codes), PHP (100+ line of codes), CSS (500+ line of codes), SASS (500+ line of codes), JavaScript (150 + line of codes), Arduino (50+ line of codes), C, MIPS (200+ line of codes), Haskell (100+ line of codes), Robotics Operating System (ROS), ROS 2, DAX
Technical: Visual Studio Code, Ubuntu Linux, Google Firebase, Visual Studio, WinSCP, Creately, Tinkercad, Soldering
Other: Microsoft Suite (PowerPoint, Word, Excel, Power BI, Teams), Google Suite (Slides, Docs, Sheets), Adobe (XD), Zoom, Slack
Spoken Languages: English (Fluent), Mandarin (Conversational), Fuzhounese (Conversational)

Relevant Courses: Introduction to Front End Web Development, Advanced Front End Web Design, Controls of Robots, Introduction to AI, Introduction to Cryptography, Software Implementation, Software Specification and Design, Linear Systems, Design Operating Systems, Introduction to Computer Graphics, Analysis of Algorithms, Data Structure

Relevant Work Experience:

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:

Donkey Car: Autonomous Driving, Programmer/Researcher   **February 2021 – Present**
- Contribute to a team of PhD, and graduate students to create an autonomous vehicle using computer vision and **ROS 2**
- Gain working knowledge on **ROS 2** to implement the software for autonomous vehicle, Donkey Car

MindBarf, Senior Design Project, Programmer/Project Manager   **February 2021 – Present**
- Joined an agile team of 6 to develop a self-quest mind map website using **HTML, CSS, JavaScript, p5.js library,** and **Firebase** to create the user interface of the mind map

NYTimes Website, Introduction to Web Development   **January 2021 – January 2021**
- Utilized **HTML, CSS, SASS, JavaScript** to create a responsive NYTimes website with multiple pages including article pages, an interactive COVID-19 map, menu, search bar, and a subscription form

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

Crowd Flow, CuseHacks , Front-end Programmer   **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), Panelist	**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**