

Aaron S. Li

Software Engineer | Cybersecurity Engineer

A1li@ucsd.edu | (858) 397-3078 | Website: <https://abclp99.github.io/>

Linkedin: <https://www.linkedin.com/in/aaron-li-029843222/>

SUMMARY

CS Major, earning B.S. at UC-San Diego aspires to a career in software engineering or cybersecurity. Want to apply skills and experience to fulfill employer's needs and continue working on development projects.

EDUCATION

- **UC SAN DIEGO (UCSD):**
 - **B.S., Computer Science** **Expected:** June 2022 **- Academic GPA:** 3.58
- **COURSEWORK FOCUS:**
 - **Computer Science:**
 - Mathematics for Algorithms and Systems
 - Design and Analysis of Algorithms
 - Theory of Computability
 - Digital Systems Laboratory
 - Discrete Mathematics
 - Programming Languages: Principles and Paradigms
 - Computer Organization and Systems Programming
 - Components and Design Techniques for Digital Systems
 - **Math:**
 - Statistical Methods
 - Calculus and Analytic Geometry for Science and Engineering
 - Honors Linear Algebra

PROFESSIONAL EXPERIENCE

GENVIRA BIOSCIENCES INC., OTTAWA, CANADA (June 2020 - September 2020): **Paid Internship**

- Configured/Set up IT infrastructure and firewalls for this new startup company
- Designed/Built the company's website
- Developed machine learning software (Python) from a biological database to predict tumor antigens for personalized tumor vaccines, which are the company's featured products.

FUTUREWEI TECHNOLOGIES, SAN DIEGO, CA (June 2018 – August 2018): **Volunteer Internship**

- Evaluated see-in-dark DL network for dark scene image processing
- Generated new datasets with a smartphone camera; re-trained computational neural network
- Assembled DL workstation from parts; setup Linux/DL environment

PROJECTS

PYRAMID BASED IMAGE FUSION (2021):

- Generated Laplacian pyramids for two images, merged each layer, then reconstructed the merged images
- Created interactive UI with Qt
- Leveraged open CV for Image input/output

FRACTAL GENERATION (2020):

- Created original Java programs to generate the Mandelbrot and the Julia sets of fractal images

BOID SIMULATION (2019):

- Created original Java programs to simulate a flock of realistic generic creatures, such birds or fish
 - Each individual boid follows certain rules to create a flocking behavior: separation, alignment, cohesion, and attempts to avoid obstacles

SORTING SIMULATION (2019):

- Created original Java programs to compare and visualize the speed of 14 sorting methods to identify and categorize advantages, drawbacks, and applications for each method.

AWARDS & HONORS

CYBERSECURITY

- **CyberPatriot National Finalist (2018):** 6th among 3,500 registered high school teams
- **Received all-expenses paid award** to compete at the National Finals Competition at Baltimore, MD.

ROBOTICS

- **FIRST Tech Challenge** (2015 – 2017): San Diego Regional **2nd place** of 60+ teams, **Control Award** winner
 - Team position: Team Captain, 1st operator

SKILLS

PROGRAMMING LANGUAGE COMPETENCIES:

Java, C, C++, Python, Haskell, Kotlin

OPERATING SYSTEM COMPETENCIES:

Windows, Linux/Installed Arch Linux

LIBRARIES:

LWJGL, OpenCV