

# Aaron S. Li

## Software Engineer | Cybersecurity Engineer

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### SUMMARY

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

### EDUCATION

- **UC SAN DIEGO (UCSD):**

- **B.S., Computer Science**

**Expected:** Spring 2023    **GPA:** 3.3

- **COURSEWORK FOCUS:**

- Math and Algorithm**

- Honors Linear Algebra

- Theory of Computation

- Statistical Methods

- Design & Analysis of Algorithms

- Discrete Mathematics

- Mathematics/Algorithms & Systems analysis

- Calculus & Analytic Geometry for Science and Engineering

- Software**

- Software Engineering

- Design & Analysis of Algorithm

- Digital Systems Laboratory

- Computer Organization and Systems Programming

- Components and Design Techniques for Digital Systems

- Programming Languages: Principles and Paradigms

- Special Topics**

- Advanced data Structure

- Computer Networks (in Progress)

- Intro to Parallel Computing

- Intro to Computer Vision (I, II(in Progress))

- Web Mining and Recommender Systems

- Intro to Modern Cryptography (in Progress)

### 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

**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 OpenCV 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,

**SORTING SIMULATION (2019):**

- Created original Java programs to compare and visualize the speed of 14 sorting methods.

### 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): Regional **2<sup>nd</sup>** place of 60+ teams, **Team Captain, Control Award** winner

### SKILLS

#### PROGRAMMING LANGUAGES:

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

#### OPERATING SYSTEMS:

Windows, Linux/Installed Arch Linux

#### LIBRARIES:

LWJGL, OpenCV