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

•	HC	CAN	DIECO	(UCSD):
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- B.S., Computer Science Expected: December 2022 GPA: 3.3

• COURSEWORK FOCUS:

Math and Algorithm

- Honors Linear Algebra - Design & Analysis of Algorithms

- Theory of Computation - Mathematics/Algorithms & Systems analysis

- Statistical Methods - Calculus & Analytic Geometry for Science and Engineering

- Discrete Mathematics

Software

- Software Engineering - Computer Organization and Systems Programming

- Design & Analysis of Algorithm - Components and Design Techniques for Digital Systems

- Digital Systems Laboratory - Programming Languages: Principles and Paradigms

Special Topics

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

- Deep Learning - Web Mining and Recommender Systems

- Intro to Parallel Computing - Intro to Modern Cryptography (in Progress)

- Computer Networks (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
- > 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 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 2nd place of 60+ teams, Team Captain, Control Award winner

SKILLS

PROGRAMMING LANGUAGE COMPETENCIES: OPERATING SYSTEM COMPETENCIES:

Java, C, C++, Python, Haskell, Kotlin Windows, Linux/Installed Arch Linux

LIBRARIES:

LWJGL, OpenCV