

EDUCATION

University of Utah

Salt Lake City, UT

- B.S. in Computer Science; 3.90 GPA. *Aug 2019 – May 2022 (Expected)*
- Relevant Coursework includes: Data Structures, Algorithms, Linear Algebra, Probability, Statistics, Discrete Math, Databases, Networking.

Hillcrest High School

Midvale, UT

- Graduated with an International Baccalaureate diploma. *Aug 2015 – Jun 2019*
- Participated in the Future Business Leaders of America-Phi Beta Lambda organization, placing Top 10 internationally in various events.

EXPERIENCE

Software Developer Genetic Logic Lab

University of Utah
Sep 2019 – Present

- Implemented a sequence search tool on SynBioHub, an open-source repository for synthetic biology designs, enabling users to search for similar genetic sequences by uploading a genetic part file.
- Currently maintaining SBOLEplorer, a distributed search tool for genetic parts using Elasticsearch to create an inverted index for faster queries.

Energy and Water Management Intern Canyons School District

Sandy, UT
Jun 2019 – Aug 2019

- Audited twenty-plus school sprinkler systems within the Canyons School District to collect water usage data.
- Created a more efficient sprinkler system measured by savings of over one million gallons of water by optimizing watering times and flow rates of sprinklers on the Calsense irrigation control platform.

AWARDS

Best Startup Project HackTheU

Oct 2019

- Created a smart waste management system called HastyWaste using IoT sensors embedded onto garbage bins to collect data for management and optimization of waste disposal routes.

National Merit Finalist National Merit Scholarship Corporation

Jan 2019

- Selected as one of 15,000 students from a pool of more than one million candidates to receive a college-sponsored scholarship.

SKILLS

Programming C++, C#, R, Java, Python, SQL, Javascript, \LaTeX , Bash
Tools Git, Linux, UML, TDD, Elasticsearch, Docker
Languages English, Mandarin Chinese, Cantonese

PROJECTS

skincheck.today

- Used Google Cloud Platform's AutoML to build and train a custom model to check user-submitted images of skin lesions for possible signs of melanoma.
- Used Python+Flask to build the website and Heroku for automatic deployment.

Deepracer

- Used AWS Deepracer to build and train a fully autonomous scale race car equipped with Lidar and stereo cameras using reinforcement learning