Anton Chen

antonchen.ca ▪ github.com/chenanton ▪ linkedin.com/in/chenanton

Email: contact@antonchen.ca
Phone: Provided upon request

EDUCATION

The University of British Columbia   Vancouver, BC
B.Sc. (Honours), Computer Science and Statistics   *Sep. 2019 – Present*

- Trek Excellence Scholarship recipient, awarded to the top 5% of undergraduates; cumulative average of 91.3% (4.0 GPA).
- *Coursework:* machine learning, statistical inference, computational optimization, numerical algorithms, probability, real analysis, linear algebra, multivariable calculus, data structures, algorithms, OOP, software engineering, and multi-threading.

WORK EXPERIENCE

Amazon Web Services, Inc.   Vancouver, BC
Incoming Software Engineering Intern   *May 2022 – Jul. 2022*

- Scheduled to complete a 12 week internship at AWS as a Software Development Engineer, on the Auto Scaling team.

VIPRE Security Group   Burnaby, BC
Software Engineering Intern, in Test   *Jan. 2021 – Aug. 2021*

- Led design and development of test automation framework in Python for backend email security cloud services.
- Implemented REST API endpoint testing libraries against core spam and virus detecting Docker microservices.
- Refactored existing verification methods to utilize concurrency, reducing test suite runtimes by over 65%.
- Designed and automated end-to-end tests with Python's Robot Framework on highly distributed AWS cloud services and MySQL databases, processing over 1.2 billion emails monthly from 50 000 business customers.
- Wrote SQL queries to manage paid customer package configurations and cached virus sample metadata.
- Trained and mentored full-time software engineer hire with system architecture, scripting, and reading code bases.

TECHNICAL PROJECTS

Safe Walk Route Planner ▪ *Pinnacle 2021 Hackathon Project*   *Sep. 2021*

- Invite-only hackathon for the winning teams of the top 50 North American collegiate hackathons, hosted in Dallas, TX.
- Member in team of five; built a web-app offering crime-data-driven route planning to increase student safety on campus.
- Implemented a custom pathfinding algorithm in JavaScript using the Google Maps Directions API, finding the safest route between two locations by leveraging FBI crime statistics from a Cloud Firestore NoSQL database.

Rubik's Cube Solver Neural Network ▪ *Solo Project*   *Aug. 2020*

- Designed and implemented a deep neural network with TensorFlow, solving any Rubik's cube with over 70% success rate.
- Developed a data generation algorithm in Python, producing 8 million scramble patterns and corresponding solutions.

Two-Dimensional Physics Engine ▪ *Solo Academic Term Project*   *Jan. 2020 – Apr. 2020*

- Engineered a GUI application in Java to simulate inelastic object collisions, using OOP principles and the MVC pattern.
- Incorporated data persistence with CRUD data-parsing algorithms, allowing users to manage multiple environment states.

SELECTED AWARDS

- **Computer Science Scholarship, The University of British Columbia**   *Mar. 2022*
- **Ron Riddell and Roy Douglas Scholarship in Mathematics, The University of British Columbia**   *Oct. 2021*
- **Stanley M Grant Scholarship in Mathematics, The University of British Columbia**   *Oct. 2021*
- **J Fred Muir Memorial Scholarship in Science, The University of British Columbia**   *Sep. 2021*
- **Trek Excellence Scholarship for Continuing Students, The University of British Columbia**   *Sep. 2021*

TECHNICAL SKILLS

Languages: C/C++, Python, Java, SQL, R, MATLAB, Julia, JavaScript/TypeScript, LaTeX.

Frameworks and Libraries: TensorFlow, Robot, JUnit, Swing, NumPy/Pandas, Matplotlib.

Developer Tools: Git, Unix/Linux, Docker/Docker Compose, Atlassian Product Suite.

Methodologies: Agile, Scrum, Kanban.