

# Anton Chen

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## EDUCATION

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**The University of British Columbia** ▪ *Bachelor of Science*

**Vancouver, BC**

**Honours Computer Science and Statistics, with Co-op**

*Sep. 2019 — Present*

- Cumulative average of 92% (4.0 GPA); Trek Excellence Scholarship recipient, awarded to top 5% of undergraduates.
- **Coursework:** data structures, algorithms, OOP, software engineering, multi-threading, software architecture, applied statistics, honours linear algebra, and honours multivariable calculus (all courses received A+).

**International Baccalaureate** ▪ *Certificate Program*

**Calgary, AB**

- Mathematics HL (7/7) and Physics SL (7/7).

*Sep. 2017 — May 2019*

## WORK EXPERIENCE

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**VIPRE Security Group** ▪ *Email Security Cloud, Back-End Development Team*

**Burnaby, BC**

**Software Engineer Intern, in Test**

*Jan. 2021 — Present*

- Led design and development of test automation framework in Python for backend mail-processing services.
  - Fully automated back-end regression and integration testing; saved over 40 staff hours monthly from manual verification.
  - Implemented REST API endpoint testing libraries on 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 unit 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 hashes.
  - Developed Bash scripts to perform automated deployment testing across over 50 servers globally.
- Trained and mentored full-time software engineer hire with system architecture, scripting, and reading code bases.

## TECHNICAL PROJECTS

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**Vaccelerator** ▪ *HackUCI 2021 Hackathon Project; Placed 2<sup>nd</sup> out of 89 teams*

*Jan. 2021*

- Member in team of five; built a web-app offering data-driven COVID-19 vaccine rollout insights and information.
- Created interactive US heatmap in Python to visualize pandemic vulnerability by scraping 334 days of CDC data.

**Rubik's Cube Solver Neural Network** ▪ *Solo Project*

*Aug. 2020*

- Designed and implemented a deep neural network in 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, using OOP principles and MVC patterns to simulate inelastic object collisions.
- Incorporated data persistence with CRUD data-parsing methods, allowing users to manage multiple environment states.

## EXTRACURRICULAR EXPERIENCE

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**Competitive Robotics** ▪ *VEX Robotics Club*

*Sep. 2018 — Feb. 2019*

- Group member in year-long five member project to design, build, and code a VEX robot.
- Roles include robot design, construction, and programming autonomous action in ROBOTC, a C-like language.

**Volunteering and Community Service** ▪ *Volunteering Club*

*Sep. 2016 — Jun. 2019*

- Over 50 hours of volunteer experience; includes tournament hosting, food donation preparation, and bottle drives.
- Taught grade school kids coding fundamentals with Scratch and code.org at the *Coding Buddies* organization.

## TECHNICAL SKILLS

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**Languages:** C/C++, Python, Java, SQL (MySQL), R, x86 Assembly, Bash, HTML/CSS, Scheme, L<sup>A</sup>T<sub>E</sub>X.

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

**Developer Tools:** Git, Unix/Linux, Docker/Docker Compose, Jira, Bitbucket, Confluence.

**Methodologies:** Agile, Scrum, Kanban.