Anton Chen

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Education

The University of British Columbia — Vancouver, BC, Canada

B.Sc. (Honors), Computer Science and Statistics — *Expected Graduation: May 2024*

- Trek Excellence Scholarship recipient, awarded to the **top 5%** of undergraduates; cumulative average of **91% (4.0 GPA)**.
- *Coursework:* machine learning and statistical inference, computational optimization and numerical algorithms, probability and real analysis, data structures and algorithms, OOP and design patterns, databases and multi-threading.

Work Experience

Amazon Web Services, Inc. — Vancouver, BC, Canada

Incoming Software Development Engineer Intern, EC2 Core Platform — *May 2023 – Aug. 2023*

- Scheduled to complete a 16 week technical internship with the Auto Scaling team as a software development engineer.

Tesla, Inc. — Fremont, CA

Incoming Software Engineer Intern, Cell Engineering — *Jan. 2023 – Apr. 2023*

- Scheduled to complete a 16 week technical internship with the Cell Engineering team as a software engineer.

Amazon Web Services, Inc. — Vancouver, BC, Canada

Software Development Engineer Intern, EC2 Core Platform — *May 2022 – Jul. 2022*

- Designed and implemented metric math support for Amazon EC2 Auto Scaling target tracking scaling policies.
- Extended the Amazon EC2 Auto Scaling public API using Java, allowing over **293 000** external customers to automatically scale Amazon EC2 instances based on time series data generated from Amazon CloudWatch metric math expressions.
- Applied the DAO design pattern to persist scaling policies in MySQL and Amazon QLDB databases simultaneously.
- Project impact of **180 million** compute hours per week, used in **10%** of all customer target tracking scaling policies.

VIPRE Security Group — Burnaby, BC, Canada

Software Engineer Intern, Email Security Cloud — *Jan. 2021 – Aug. 2021*

- Led design and development of a test automation framework in Python for backend email security cloud services, processing over **1.2 billion** emails per month from **50 000** business customers.
- Refactored existing validation logic to utilize concurrency, reducing test suite runtimes by over **65%**.
- Trained and mentored an intermediate software engineer hire with service architecture, scripting, and reading code bases.

Technical Projects

Safe Walk Route Planner ▪ *Hackathon Project, Pinnacle 2021* — *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.

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

- Designed and tuned a deep neural network with TensorFlow, solving any Rubik's cube with over **70%** success rate.

Selected Awards

- **Trek Excellence Scholarship, The University of British Columbia** — *Sep. 2021, Sep. 2022*
- **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*

Technical Skills

Languages: 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, AWS, Atlassian Product Suite.