

Simon Ashton

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EDUCATION

Simon Fraser University

Bachelor of Science in Computer Science – 4.16 GPA

- Competitive programming club (core member).

Burnaby, BC

Sept. 2024 – April 2030

COMPETITIONS

Top Competitive Programmer

Oct. 2022 – Present

- Candidate Master on Codeforces (top 2.9%).
- 5-Star on CodeChef (top 0.9%).

SFU MASH Programming Contest Winner

March 2025

- Used Kruskal's algorithm to efficiently find the MST of a trade network in $\mathcal{O}(E \log E)$.
- Wrote the only correct solution to Dijkstra problem (identified test data flaw post-contest).
- Placed 1st among 20 teams.

DreamHacks Winner

March 2025

- Simulated n-body force interactions in $\mathcal{O}(n^2)$ from scratch in three.js.
- Collaborated with 3D graphics specialist to produce immersive dream-like visuals.
- Won "First Light Award" (top prize) from 26 teams.

PROJECTS

SynthScript | C++, doctest, GitHub Actions

Dec. 2023 – Oct. 2024

- Self-learned programming language design in 2 months.
- Implemented scripting language with recursive descent parser and AST interpreter.
- Unit-tested in 9 development environments with GitHub Actions.

cp-tool | Python, GitHub Actions, PyPI

Aug. 2023 – Jan. 2025

- Built CLI to automate competitive programming setup, saving 10+ seconds per problem.
- Implemented GitHub Actions pipeline for automatic PyPI releases.

OPEN SOURCE

Godot Engine Contributor | C++, doctest

March 2024 – Sept. 2024

- Navigated 1M+ LOC codebase to diagnose and fix text editor edge cases.
- Added regression tests covering 7 edge cases to prevent future failures.
- Collaborated with core maintainers to ensure correct implementation.

TECHNICAL SKILLS

Languages: C++, Python (Advanced) — JavaScript (Intermediate)

Systems: Linux (NixOS, Arch), Git, CI/CD (GitHub Actions)

Algorithms: Graph Theory, Dynamic Programming, Network Flows, Optimization