

Gleb Dubinin

+61 490 041 547 | gleb.dubinin@adelaide.edu.au | [linkedin.com/in/gleb-dubinin](https://www.linkedin.com/in/gleb-dubinin) | github.com/glebdubs

EDUCATION

Univeristy of Adelaide

Bachelor of Software Engineering (Honors)

Adelaide, SA

Febuary 2025 - November 2028

The Heights School

High School Diploma - 97.10 ATAR, 99.35 SR

Adelaide, SA

2018 - 2025

EXPERIENCE

High School Math Tutor

Numberworks 'n' Words

December 2024 – Present

Norwood, South Australia

- Provided one-on-one and group tutoring sessions for Algebra, Calculus and Year 12 Spec Exam prep
- Trained new employees on teaching approaches and facility routines
- Recognised for being in high demand among ambitious students
- Learnt vital communication and teaching skills for a variety of audiences and scenarios

PROJECTS

3D Boid Simulation w/ Metal API | C++, Metal

January 2026 - February 2026

- Developed an optimised 3D Boid movement simulation with Apple's Metal API
- Supported up to 1024 boids present at once with enabled shaders and <0.3% GPU utilisation
- Implemented spacial octree to minimise distance calculations performed and reduce CPU load
- Used a semaphore based frame management system to synchronize and control written / read frame data

Encrypted Secure Shell | C++, OpenSSL

December 2025 - January 2026

- Developed an asymetrically encrypted custom secure shell implementation
- Implemented TCP socket communication between devices in C++
- Used OpenSSL's RSA standard keygen and security practices
- Customised to support small file transfers

Paper Stock Exchange | C++, Qt

August - October 2025

- Developed a simulated stock exchange in C++ with Qt for the UI and graphing
- Used modular backend design to allow for different competing trading strategies
- Allowed entering a backlog of past prices from real stock data as reference
- Implemented users trading with bots and tracking of strategy successes
- Led a team all throughout the development of this project

VOLUNTEERING

Events Officer | Adelaide Competitive Programming Club

November 2025 – Current

- Assisted in organising programming competitions and events for the ACPC
- Helped in the iterative design of merchandise and advertising products for the club
- Coordinated with other University clubs and sponsor companies (Jane Street, Optiver, Susquehanna, among others)

TECHNICAL SKILLS

Languages: C/C++, Python

Frameworks: Qt, Metal

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: OpenSSL, pandas, NumPy, Matplotlib