

Gleb Dubinin

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EDUCATION

Univeristy of Adelaide <i>Bachelor of Software Engineering (Honors)</i>	Adelaide, SA February 2025 - November 2028
The Heights School <i>High School Diploma - 97.10 ATAR, 99.35 SR</i>	Adelaide, SA 2018 - 2025

EXPERIENCE

High School Math Tutor <i>Numberworks 'n' Words</i>	December 2024 – Present Norwood, South Australia
<ul style="list-style-type: none">Provided one-on-one and group tutoring sessions for Algebra, Calculus and Year 12 Spec Exam prepTrained new employees on teaching approaches and facility routinesRecognised for being in high demand among ambitious studentsLearnt vital communication and teaching skills for a variety of audiences and scenarios	

PROJECTS

3D Boid Simulation w/ Metal API <i>C++, Metal</i>	January 2026 - February 2026
<ul style="list-style-type: none">Developed an optimised 3D Boid movement simulation with Apple's Metal APISupported up to 1024 boids present at once with enabled shaders and <0.3% GPU utilisationImplemented spacial octree to minimise distance calculations performed and reduce CPU loadUsed a semaphore based frame management system to synchronize and control written / read frame data	
Encrypted Secure Shell <i>C++, OpenSSL</i>	December 2025 - January 2026
<ul style="list-style-type: none">Developed an asymmetrically encrypted custom secure shell implementationImplemented TCP socket communication between devices in C++Used OpenSSL's RSA standard keygen and security practicesCustomised to support small file transfers	
Paper Stock Exchange <i>C++, Qt</i>	August - October 2025
<ul style="list-style-type: none">Developed a simulated stock exchange in C++ with Qt for the UI and graphingUsed modular backend design to allow for different competing trading strategiesAllowed entering a backlog of past prices from real stock data as referenceImplemented users trading with bots and tracking of strategy successesLed a team all throughout the development of this project	

VOLUNTEERING

Events Officer <i>Adelaide Competitive Programming Club</i>	November 2025 – Current
<ul style="list-style-type: none">Assisted in organising programming competitions and events for the ACPCHelped in the iterative design of merchandise and advertising products for the clubCoordinated 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