

Angus Bosmans

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SUMMARY

Software engineer focused on **performance-critical systems**, **market-making style algorithms**, and **automation at scale**. Built an algorithmic exchange serving **~1M users** and engineered lightweight clients/bots in **C++**, **Python** and **TypeScript** with network protocol-level integration.

EDUCATION

Monash University

Bachelor of Mechatronics Engineering (Honours) & Arts

Melbourne, Australia

2021 – 2026

- Engineering Dean's Honour List (2021, 2022)

EXPERIENCE

Founder / Software Engineer

Sep 2022 – Dec 2023

OP.Market | *C++*, *Python*, *TypeScript*, *Networking/Protocols*, *IDA Pro*, *Fiddler*, *ReClassEx*

- Built an **algorithmically priced trading exchange** for Rocket League items, scaling to **900,000+ users** and **20,000+ daily transactions**.
- Reverse-engineered Rocket League trade protocol and built a lightweight client that emits network messages directly; reduced memory footprint to 10 MB and p95 latency from 300ms to 12ms via parallelism and lower overhead.
- Implemented market-making pricing with inventory risk controls using volume, signals, and fundamental inputs to drive industry-leading price discovery.

Founder / Software Engineer

Oct 2023 – Present

BloxBoom | *TypeScript*, *Lua*, *Rust*, *Node.js*, *PostgreSQL*, *Redis*, *Sentry*, *CI/CD*, *Grafana*

- Built and operated an automated digital-goods marketplace **internationalised into 8 languages** with instant automated delivery of **100,000+ annual purchases** across 18 Roblox games.
- Designed caches, trade queues, and reservation locks to keep purchase flows fast while preserving correctness.
- Shipped reliable deployments with Jenkins & GitHub Actions; reduced deploy cycle to **~2 minutes**.

Software Engineer

Aug 2018 – Sep 2019

RLSwaps | *TypeScript*, *Node.js*, *React*, *Next.js*, *MySQL*, *WebSockets*, *NGINX*, *Linux*

- Developed an automated trading bot & marketplace in a real-time virtual economy; implemented pricing/spread logic for **40,000 unique assets** with inventory risk controls.
- Implemented monitoring and alerts in Grafana to detect latency spikes, execution errors, and abnormal volume.

Incoming Software Engineer | TikTok

Start 2026

PROJECTS

Neural Cellular Automata

Nov 2024 – Nov 2025

Monash DeepNeuron – HPC Branch | *WebGPU Shader Language*, *Python*, *PyTorch*, *Parallel Computing*

- Developed GPU-accelerated neural cellular automata simulations & rendering pipelines to create performant interactive demos on low-power mobile devices.
- Optimised memory layout and convolution to improve frame rate to 240+ FPS; used profiling to reduce latency by 96% per step (53ms to 2ms).

Growth Garden – 1st Place UNIHACK 2025

Mar 2025

UNIHACK | *TypeScript*, *React*, *Three.js*, *WebGL*, *Jenkins*, *GitHub Actions*

- Created an immersive 3D habit-building game with custom shaders that turns personal goals into progress via AI-driven task suggestions and interactive world growth.
- Led a team of 6 in a 48-hour hackathon to deliver an MVP that won **1st Place among 750+ entrants**.

Open Source Projects

Jul 2018 - Present

- express-zod-safe : type-safe request validation middleware for Express.js (**10,000+ weekly downloads**).
- @angablue/exe : portable binary build system for JavaScript/TypeScript (**70+ stars** on GitHub).
- MIPS Assembly Formatter : the go-to assembly formatter for VS Code (**36,000+ installs**, **5 ★** rating).
- Autonomous Shopping Robot : robot capable of collecting a shopping list via computer vision; EKF, projections, object recognition and A* path planning.