Wolf Van Dierdonck

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Education

University of Waterloo / Bachelor of Software Engineering (Honours) / 93% GPA

- Graduated with **Dean's Honours** in Engineering and Math faculties.
- Received the **First in Class Engineering Scholarship** for 2023.

Experience

Jane Street / Software Engineer
New York, NY / Aug 2025 – Present

- Creating data storage infrastructure that enables engineers and traders to efficiently work with internal data.

Roblox / Backend SWE Intern
San Mateo, CA / May 2024 – Aug 2024

- Created tool to inspect request/response data in production, speeding up debugging & development
- **Improved throughput** of backend processing service by **12x** to reduce required machines from 100 to 8
- Developed component testing framework for internal tracing library to reduce bugs and improve velocity

Databricks / Performance SWE Intern
Mountain View, CA / Jan 2024 – Apr 2024

- Designed and implemented a time-series database in SQL to optimize cost and scalability of metrics
- Analyzed the **performance** of a table creation flow to improve performance by **30%**

Cruise / Backend SWE Intern
San Francisco, CA / May 2023 – Aug 2023

- Worked on high-fidelity simulation engines in C++/Python to improve autonomous vehicle performance
- Enhanced simulations by enabling runtime state injection, improving test flexibility and QA velocity

Spatial Systems / Full-Stack SWE Intern
San Francisco, CA / Sep 2022 – Dec 2022

- Decreased app size by **60%** through dynamic loading and compression, improving load time by **5 seconds**
- Created a system to track and aggregate user analytics in React and TypeScript

Spatial Systems / VR SWE Intern
Remote / Jan 2022 – Apr 2022

- Developed raycasting-based 3D algorithm to identify user focus in Virtual Reality environments

Projects

AR Grapher / Hack3 First Place Prize

- Created and published an Android app using Unity that 3D graphs in AR based on user input
- Engineered a computer algebra system in C# to **solve** multi-variable **algebraic equations**, increasing computation speed by **97%** relative to language built-in

Automated Proof Checker

- Developed algorithms to scan, parse, and verify the **correctness of formal logic proofs** in Natural Deduction

Skills

Languages
C++, Go, Python, Rust, TypeScript, SQL, C#, OCaml, Scala, HTML+CSS, Bash

Technologies
gRPC, Docker, React, Unity, WebAssembly, Bazel, AWS