

GABRIEL WINDLIN

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Education

University

Bachelor of Computer Science at ETHZ

Expected Graduation: June 2028

Zürich

- Courses: Algorithms and Data Structures, Linear Algebra, Discrete Mathematics, Introduction to Programming.

Experience

VIS ETHZ (Computer Science Association)

Computer Infrastructure Team Member

October 2025 – Present

Zürich

- Deployed Rallly, an open-source collaborative scheduling tool, on the association's local cluster using Kubernetes.
- Configured container orchestration and networking to ensure reliable self-hosted services for the student body.
- Collaborated with the infrastructure team to maintain and monitor on-premise server resources.

PureGym

Helper

June 2025 – Present

Volketswil, Dübendorf

- Assisted with front desk tasks including check-ins, scheduling, and member support.
- Maintained a clean, safe gym environment and ensured equipment was in working order.

Skills Park

All-rounder

March 2022 – Present

Winterthur

- Welcomed customers and helped determine their needs.
- Maintained a balanced cash drawer, ensuring accurate accounting at the end of each shift.
- Collaborated with team members to optimize workflow efficiency.

Projects

TCP Port Scanner | GitHub

C | POSIX Sockets | Non-blocking I/O

- Developed a high-performance, single-file TCP connect() scanner in C using non-blocking sockets and `select()` for precise per-port timeouts
- Implemented robust asynchronous connection logic with **EINPROGRESS** handling and **SO_ERROR** checks to accurately distinguish open, filtered, and closed ports
- Designed clean, minimal output (only reports open and timed-out ports) while achieving fast scans on large ranges without external dependencies

SEC-SUITE: Security Testing Toolkit | GitHub

Python | Multi-threading | Security

- Engineered comprehensive security toolkit with multiple password cracking techniques including **Markov Chain probabilistic generation**, **dictionary attacks**, and **multi-threaded brute force**
- Implemented modern hash algorithms (**bcrypt**, **scrypt**, **argon2**) with automatic type detection and salt handling
- Developed security utilities including **network port scanner**, **advanced keylogger**, and encoding/decoding tools with intuitive interactive CLI interface

Personal Portfolio | Website

TypeScript | HTML | CSS

- Developed responsive personal portfolio website showcasing projects and technical skills with modern UI/UX design principles
- Implemented cross-browser compatibility and mobile-responsive design for optimal user experience across all devices

Technical Skills

Languages: Java, Python, C, JavaScript, TypeScript, HTML, CSS, YAML

Developer Tools: Git, Docker, Kubernetes, Linux