

Oliver Hopcroft

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Education **Cornell University / College of Engineering, Computer Science**

August 2019 - May 2023, Ithaca, NY. GPA: 3.8 out of 4.0

- CS 3110 Data structures and functional programming
- CS 4110 Programming languages and logics
- CS 6850 Structure of Info Networks (graduate-level)
- MATH 4550 Applied geometry — hyperplane arrangements, zonotopes, etc.
- MATH 6840 Recursion theory / computability theory (graduate-level)

Inglemoor High School / International Baccalaureate Program

September 2016 - June 2019, Kenmore, WA. Valedictorian

Experience **BlitzOrder / Co-founder**

November 2019 - October 2021 Ithaca, NY

Developed and ran an ordering app for local cafes and restaurants in upstate NY. Pivoted to a driver logistics optimization platform for local delivery cooperatives. Wrote the backend in Node.js, and the frontend mobile app in Dart using the Flutter framework, processing payments with Stripe.

Rooted Farmers / Technical Lead

August 2020 - June 2021 Hanover, NH

Led development for a venture-backed three-way marketplace for wholesale agricultural sales. Implemented the backend in Node.js with GCP cloud functions, and the frontend as an SPA in React with Typescript. During this time, we closed another funding round and I oversaw growth of the technical team through the addition of two developers.

Spacecraft Systems Design Studio / Cislunar Explorers, Cornell University

October 2019 - February 2020 Ithaca, NY

Implemented the optical navigation system for the Cislunar Explorers, a secondary payload planned for NASA's first SLS launch. Worked mainly in C++ using JPL's F-Prime framework, Matlab, and OpenCV.

Skills

Languages & Frameworks

- Javascript/Typescript with React, Node.js
- C++ and C
- Functional programming — OCaml, fp-ts
- Linear algebra / vectorized math — Eigen, Numpy, Matlab
- Dart language & Flutter app framework

Activities

Brazilian Jiu Jitsu blue belt. Instructed children's martial arts classes and coached at competitions.

Orienteering (map-and-compass navigation racing). Fourth place finish individually in WA state in 2019; led team to second-place as captain.

AIARE Level 1 Avalanche certification. Experienced backcountry skier, rock climber.