

## Curriculum Vitæ

### Education

- 2024 – 2028 **B.S. Mathematics**, *University of California, Santa Barbara*,  
4.0/4.0, Dean's Honors
- 2024 – 2028 **B.S. Computer Science**, *University of California, Santa Barbara*

### Experience

- 11/2024 – **Systems programmer**, *UC Santa Barbara – Robotics Lab*,  
Present Designed reproducible and purely functional hermetic build systems. Creating 3D simulacrums of laboratory experiments that are reproduced in real life, using Rust, C++, React, and Three.js.
- 11/2024 – **Package maintainer**, *NixOS Foundation*,  
Present Maintaining core system packages for the NixOS system distribution, an advanced *purely functional* GNU/Linux distribution built on the Nix package manager and Nix programming language. NixOS has over 18,000 GitHub stars and users.
- 09/2022 – **Artificial intelligence lead**, *FIRST Robotics Team 1280*,  
06/2024 Worked on autonomous decision making and path planning algorithms. Replaced the venerable *BozoAuto* autonomous subroutine with the *DeepBozo* autonomous suite. Designed a novel robot control dashboard with 3D visualization using Rust, Tauri, and Svelte. Won 2022 Monterey Bay Regional Competition.

### Skills

- Languages Rust, TypeScript, Haskell, Python, C++.
- Technologies React, SvelteKit, Tauri, Next.js, Elm.
- Developer Nix and NixOS, Docker, Linux, and NixOS based service deployment and system  
Tooling administration.

### Awards

- 1/2025 **SB Hacks XI Winning Project**  
1st place at hackathon with 300+ participants from University of California campuses for building an AI powered apartment finder.
- 2/2024 **National Merit Semifinalist**  
Issued by National Merit Scholarship Corporation.