ETHAN LOWENTHAL

Palo Alto, CA

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Detail-oriented programmer with 4+ years of experience. Passionate about mathematics, working towards a degree in Math & Computer Science. Proactive learner looking to gain experience problem solving in the real world.

EDUCATION

University of Victoria   **Sept 2021 – April 2025**
B.Sc. Mathematics and Computer Science   Victoria, British Columbia

WORK EXPERIENCE

PsiQuantum   **Feb 2025 - Present**
Software Engineer, Optical Packaging   Palo Alto, California

- Built optical packaging process development and automation software for real-time control of precision hardware, including optomechanical alignment systems and nano-positioning stages.
- Collaborated with mechanical, optical, and systems engineers.   **May 2024 – Aug 2024**

Intern, Packaging Automation   Palo Alto, California

SOLIDS lab, University of Victoria   **Nov 2023 – Jul 2025**
Undergraduate Researcher   Victoria, British Columbia

- Developed a C++ desktop application for human-in-the-loop image annotation and model training with QT and embedded python.

Leitch and McBride Sailmakers   **Jun – Dec 2022**
Apprentice Sailmaker   Sidney, British Columbia

- Repaired and built new sails and bags. Proficient in industrial sewing and sailing.

Opus1 Development Studio   **Jun 2019 – Sept 2021**
Full Stack Developer   Palo Alto, California

- Developed music studio management software: file sharing, lesson scheduling, and administrative tools. Built a WebRTC patch for high-fidelity audio

CERTIFICATIONS & COURSEWORK

- Quantum Software Engineering Bootcamp
  Quantum Algorithms Institute
- Algorithms & Data Structures, Numerical Analysis, Functional Programming
- Linear Algebra, Discrete Math, Analysis, Statistics, Probability, Abstract Algebra

SKILLS

- Python, C++, JavaScript
- Web & Desktop Application Development
- UNIX, Git
- Computer Vision, Graphics Programming, PCB Design, Embedded Systems Development, Robotics

EXTRACURRICULAR

UVic Sailing Team   **2022 - Present**
President, Treasurer   Victoria, British Columbia

- Planned and organized team trips that combine sailing with shared experiences. Advised fundraising goals and spending.

Hillel on Campus   **2022 - Present**
President, Secretary   Victoria, British Columbia

- Led events that foster a sense of community among students, supported campus outreach, and managed communication with university officials and partner organizations to enhance the student experience on campus.

IEEE UVic Student Branch   **2022 - 2023**
Treasurer   Victoria, British Columbia

- Oversaw financial planning, created funding proposals, advised on spending, and handled reimbursements