

EDEN LIANG

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TECHNICAL SKILLS

Languages: Typescript, Python, Java, HTML, CSS, Javascript, Bash, C++

Frameworks & Libraries: React, Tailwind CSS, Pygame, Node.js, Next.js, SSH, PyTorch, Cuda, TensorFlow, MediaPipe, PyAutoGUI, Yolo, CoreML, OpenCV, Docker, Figma, React Native, Firebase

Tools: Git & GitHub, Visual Studio Code, Antigravity, Jupyter Notebook, Google Colab, PostgreSQL, LaTeX

EXPERIENCE

Smashspeed AI (42,000+ Users)

Founding Member, COO

Vancouver, Canada

Sept 2025 – Present

- Co-developed a real-time computer vision pipeline for iOS using YOLOv5, CoreML, and Kalman filtering to calculate badminton shuttle speeds with high precision on-device; achieved 93% model accuracy by labeling 13,000+ images and training on 15,000+ images using NVIDIA A100 GPUs on Google Cloud.
- Built fully functional React Native mobile app with more than 45,000 downloads

Stemsphere

Founding Member, CFO

Vancouver, Canada

August 2025 – Present

- Founding member of non-profit promoting STEM education.
- Helped develop functional web platform and curriculum with React, reaching over 200 students.

Furious Frogs (FTC 26025)

Developer

Vancouver, Canada

June 2024 – Present

- Developed an autonomous system balancing hardware, software and computer vision, reaching second in the world out of 100,000+ teams.
- Reach the world championships and ranked number 1 in Canada for overall stats

SHAD Canada Summer Program

Fellow

Lethbridge, Canada

June 2025 – July 2025

- Selected from a competitive pool of Canadian high school students to participate in a month-long enrichment program focused on STEM, entrepreneurship, and leadership.
- Led a team of 6 to design a sustainable solution to transportation issues in Canada, winning the Best Presentation Award.

PROJECTS

Smashspeed AI |

- AI-powered badminton tracker that detects shots, estimates smash speed in real time, and visualizes performance trends.
- Available on both iOS and Android.
- Viral social media campaign reaching 5M+ views and leading to 35,000+ downloads across all platforms.

Competitive Programming

- 2+ years of experience on DMOJ, a modern online judge for competitive programming problems.
- Ranked top 5,000 globally out of 200,000 developers.

Dushu |

- Web app to analyze mandarin texts to determine complexity, lexile equivalent level, readability
- Used various language databases, APIs, Jieba, Fly.io, and scrapers to create a library of personalized texts based on user's mandarin level.

Slate |

- Minimalist personal planning and productivity app designed for students. Features calendar integration, focus session tracker, priority listing and todo lists.
- Used **Next.js**, **Typescript**, **TailwindCSS** and **React**.

EDUCATION

Port Moody Secondary School

International Baccalaureate (IB) Diploma Programme

Port Moody, Canada

2023 – Present