

# Curriculum Vitae

Leo Duan

## Basic Information

**Name:** Leo Duan

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## Education

- New Westminster Secondary School - 2025 (expected)

## Courses and Exams

### International Baccalaureate (IB)

- IB Analysis & Approaches HL
- IB Physics HL
- IB Chemistry HL
- IB Literature HL
- IB Psychology SL
- IB Spanish (ab initio) SL

### Advanced Placement (AP)

- AP Physics 1: 5
- AP Physics 2: 5
- AP Physics C Mechanics: 5
- AP Physics C Electricity and Magnetism: 5
- AP Chemistry: 5
- AP Calculus BC: 5 (AP Calculus AB subscore: 5)

### SAT

- Total score: 1550
- Evidence-based reading and writing score: 750
- Math score: 800

## Projects

- **Personal website (leoduan.com)** - Personal website. Built with Next.js and TypeScript.
- **Lerna (www.lerna.app)** - Notes collection (mostly designed for IB) and STEM competition preparation platform. Built with Next.js, TypeScript, and L<sup>A</sup>T<sub>E</sub>X with PyLaTeX.
- **Inka (www.inka.earth)** - Acronym for “Inka’s Not Khan Academy”. Question bank for the digital SAT and IB subjects. Collaborated with friends in creating practice questions. Built with Next.js, TypeScript, and L<sup>A</sup>T<sub>E</sub>X.
- **FiddleLeaf (fiddleleaf.vercel.app)** - A music transcription library. Built with Next.js and TypeScript. Created scores using MuseScore.

## Work Experiences

### **Cook, A&W Restaurants; New Westminster, BC — 2022-07-11 to 2022-10-29**

- Worked full-time (40 hours) during summer break; usually on closing shift until 12:30 AM.
- Worked part-time (20 hours) during the school year.
- Operated clamshell grills, fryers, toasters, CVaps, and Thermodynes.
- Made orders on demand while following the standard operating procedure.
- Trained on A&W standards and WHMIS.
- Worked cooperatively with a team or independently in kitchen operation.

### **Packer, Roger’s Custom Meats (1981) LTD; Prince George, BC — 2019-01 to 2020-03**

- Labelled products with pricing guns and labeling machines.
- Operated of vacuum sealers, scales, and plastic film machines.
- Boxed items according to customer orders.

### **Go Tutor; Prince George, BC — 2018-04 to 2018-09**

- Tutored the board game of Go

## Achievements

- Honorable Mention at the Toshiba ExploraVision Science Competition - 2024
- Played trumpet in the school Shrek the Musical production, which won 1st place at the Canada Young Theatre Awards - 2024
- 4th place out of 78 teams at the 46th UBC Physics Olympics Quizzics - 2024
- Highly Commended in Minds Underground Essay Competition — 2023
- Innovation Project Award and Motivate Award at the FIRST Lego League Challenge in Victoria, BC (team awards) — 2020
- 2nd place in Red Cedar Book Awards Competition — 2020
- 2 gold medals, 1 silver medal in Go Championship in Shenyang, China — 2015, 2016

## Extracurriculars

### Science

- University of Waterloo Quantum School for Young Students (QSYS) Summer Program - Studied with Dr. John Donohue and UWaterloo PhD students on linear algebra, quantum superposition, and their applications in quantum cryptography.
- Physics Club - President. Dedicated to helping physics students sharpen their physics skills and prepare for competitions. Conducted research with Ms. Hristova and club members investigating the mean lifetime of muons. Used photomultiplier tubes, VICTAQ, and scintillators.
- Science Club - President. Led school team to the Kwantlen Science Challenge and UBC Physics Olympics.

### Music

- Vancouver Youth Jazz Orchestra - Trumpeter. Played at the Vancouver International Jazz Festival 2024.
- Music Club - Founder, president, trumpeter, arranger. Arranged 20+ jazz pieces for a small jazz ensemble. Played at the NWSS Jazz Nite 2024.
- Shrek the Musical (school production) - Trumpeter in the pit orchestra. Played 6 two-hour musicals. 1100 audience members per show, 6000 in total. Won Outstanding School Production at the Canada Young Theatre Awards.
- New Westminster Secondary School Jazz Band (A and B) - Trumpeter.
- Noxious Obs Marching Band - Trumpeter. Played at the New West Pride Street Festival 2023 and around the city on Halloween 2023.

### Others

- Schoolhouse (schoolhouse.world) - Tutor. Certified tutor in calculus, physics, and chemistry.
- Indigenous Events Committee - Co-president. Led a \$600 food drive for 21 families in need. Organized a 2200 people Orange Shirt Day school assembly in Massey Theatre and NIPD event

## Languages

- English (bilingual proficiency)
- Mandarin Chinese (native proficiency)