

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 and STEM competition preparation platform. Built with Next.js, TypeScript, and L^AT_EX with PyLaTeX.
- **Inka (www.inka.earth)** - Acronym for “Inka’s Not Khan Academy”. Question bank for the digital SAT and IB subjects. Built with Next.js, TypeScript, and L^AT_EX.
- **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

- Physics Club - President. Dedicated to helping avid physics students sharpen their physics skills and prepare for competitions.
- 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.
- 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. Helped out with Indigenous-related events throughout the school. Fundraised more than \$600 for a food drive for roughly 30 underprivileged families.

Languages

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