

Leo Duan

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Education

New Westminster Secondary School

IB Diploma and B.C. Certificate of Graduation

New Westminister, BC, Canada

2021-09-07 – present

IB (predicted grades):

- Analysis and Approaches HL: 7
- Physics HL: 7
- Chemistry HL: 7
- Psychology SL: 7
- English Literature A HL: 6
- Spanish *ab initio*: 6
- ToK/EE: 2
- Total: 42/45

AP

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

Work

A&W Restaurants

Cook

New Westminister, BC

2022-07-11 – 2022-10-29

- Worked full-time (40 hours) during summer break; usually on closing shifts 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 procedures.
- Trained on A&W standards and WHMIS.
- Worked cooperatively with a team or independently in kitchen operations.

Roger's Custom Meats (1981) LTD

Packer

Prince George, BC

2019-01 – 2020-03

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

Go Tutor

Tutor

Prince George, BC

2018-04 – 2018-09

- Tutored students in the board game of Go.

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 \LaTeX with PyLaTeX.

Inka (www.inka.earth): Acronym for “Inka’s Not Khan Academy”. Question bank for the digital SAT and IB. Collaborated with friends to create practice questions. Built with Next.js, TypeScript, and \LaTeX .

FiddleLeaf (fiddleleaf.vercel.app): A music transcription library. Built with Next.js and TypeScript. Created scores using MuseScore.

Achievements

2024: Honorable Mention, Toshiba/NSTA ExploraVision

2024: 4th place (out of 78 teams), Quizzics at the 46th UBC Physics Olympics

2023: Highly Commended, Minds Underground Essay Competition in Mathematics

2020: Strategy and Innovation Award and Rising Star Award, FIRST Lego League

2020: 2nd place, Battle of the Books

2015, 2016: 2 gold medals and 1 silver medal, regional Go championship

Extracurriculars

Science.....

2024: Student - Quantum School for Young Students (University of Waterloo; online)

2023-2025: Member (11), president (12) - Science Club

2023-2024: President - Physics Club

Music.....

2024: Trumpeter - Vancouver Youth Jazz Orchestra. Played at the Vancouver International Jazz Festival 2024.

2023-2024: Founder, president, trumpeter, arranger - Music Club. Played at the NWSS Jazz Night 2023.

2022-2023: Trumpeter - Shrek the Musical

2022: Trumpeter - Noxious Obs Marching Band

2021-2023: Trumpeter - NWSS Jazz A and B

Others.....

2023-2024: Co-president - Indigenous Events Committee

Skills

Programming: Python, Next.js, TypeScript, \LaTeX , Arch Linux

Music: Trumpet, flugelhorn, trombone, piano

Languages: English (speak, listen, read, write), Mandarin Chinese (speak, listen, read)