

# Leo Duan

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## Education

### New Westminster Secondary School

*IB Diploma and B.C. Certificate of Graduation*

**New Westminster, 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 Westminster, 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](http://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](http://fiddleleaf.vercel.app)): A music transcription library. Built with Next.js and TypeScript. Created scores using MuseScore.

## Achievements

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**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

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### 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

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

**Music:** Trumpet, flugelhorn, trombone, piano

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