

# LUU DANG THANH HA

672-200-4300 | hdl4@sfu.ca | Burnaby, BC

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## TECHNICAL SKILLS

### Programming

C++, C, Java, Python, Rust, Haskell  
HTML / CSS, JavaScript  
PostgreSQL

### Framework & Library

ReactJS, Bootstrap, Chakra  
Spring / SpringBoot  
JUnit, MockMvc

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## TECHNICAL PROJECT

### Rust Developer, Simple Blockchain System

Nov 2024

Personal

- Using Rust multithreading and concurrency to implemented a proof-of-work blockchain
- Built a work queue to mine blocks in parallel using multiple threads, significantly reducing mining time.
- Ensured cryptographic integrity with SHA-256 hashing and leveraged Rust's concurrency primitives to optimize performance.

### Haskell Developer, Spelling Bee Game

Oct 2024

Personal

- Developed a Haskell word game using functional programming principles to implement puzzle generation, word validation, and scoring functions, resulting in an engaging gaming experience.
- Built a solver leveraging recursion and higher-order functions to efficiently find all valid solutions, enhancing the game's analytical depth and playability.

### Full Stack Developer, Health Management System

June 2024 - Aug 2024

Teamwork 4 members - Fullstack

- Designed a user-friendly interface using HTML, CSS, and JavaScript to enhance patient interaction.
- Manage database using PostgreSQL to manage patient data and implemented Spring and Spring Boot frameworks for seamless backend data transfer.
- Integrated the Gmail API to automate email notifications, streamlining appointment bookings and improving communication for an enhanced patient experience.

### Java Developer, Matching Game

June 2024

Personal

- Developed a card-matching game using a 4x4 grid in Java, applying Object-Oriented Design (OOD) to ensure a consistent and maintainable game structure.
- Implemented move tracking and game logic to track user performance and enhance engagement, improving the overall user experience.

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## EDUCATION

### BSc. Computer Science - Software System

Jan 2024 - Present

Simon Fraser University at Burnaby, BC

GPA: 4.21/4.33

SFU Alumni Scholarship

Sep 2024

SFU Kenneth Scholarship

Sep 2024

### Computing Science UTPII

Jan 2023 - Dec 2024

Fraser International College at Burnaby, BC

GPA: 4.17/4.33

Academic Distinction Scholarship

Sep 2023

Principal's Honour Roll

Dec 2023

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## COMMUNITY EXPERIENCE

### Volunteer

Sep 2024

Fringe Festival - Vancouver, BC

- Checked in patrons efficiently, ensuring accurate tracking and a positive entry experience for festival attendees.
- Contributed to a smooth and organized event environment by proactively addressing questions and concerns.

### Orientation Leader

Aug 2023

Fraser International College - Burnaby, BC

- Supported new students in transitioning to college life by providing informative campus tours and addressing concerns
  - Developed strong communication and leadership skills by guiding diverse student groups and facilitating meaningful interactions.
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## WORK EXPERIENCE

### Barista

July 2023 - Present

Hem 377 - Vancouver BC

- Communicated effectively with team members to manage order flow during peak hours, reducing wait times and improving customer satisfaction.
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## EXTRACURRICULAR ACTIVITY

### International Collegiate Programming Contest (ICPC) Division2

Secured 10th place out of 82 teams in Pacific Northwest

Nov 2024

Secured 11st place out of 70 teams in Pacific Northwest

Feb 2024