

# LUU DANG THANH HA

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

---

## TECHNICAL SKILLS

### Programming

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

### Framework & Library

ReactJS, Bootstrap, Chakra  
Spring / SpringBoot  
JUnit, MockMvc

---

## 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.

# LUU DANG THANH HA

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

---

## 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

---

## 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.
- 

## 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.
- 

## 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



Unofficial Transcript

Student Name: Luu, Ha Dang Thanh  
ID Number: 301592158  
Birthdate: Oct 12

Date of Issue: December 23 2024

Credentials Awarded

Beginning of Undergraduate Record

Transfer Credits

| Fraser International College                   |                             |          | Total Units:           |                 | 32.00           |              |               |                  |
|--|-----------------------------|----------|------------------------|-----------------|-----------------|--------------|---------------|------------------|
| 2024 Spring                                    |                             |          |                        |                 |                 |              |               |                  |
| Major in Software Systems, Bachelor of Science |                             |          |                        |                 |                 |              |               |                  |
| Course   | Description                 | Repeated | Units Attempted        | Units Completed | Grade           | Grade Points | Class Average | Class Enrollment |
| CMPT 225                                       | Data Structures/Programming |          | 3.00                   | 3.00            | A-              | 11.01        | C+            | 178              |
| MACM 201                                       | Discrete Math II            |          | 3.00                   | 3.00            | A+              | 12.99        | C+            | 222              |
| MATH 232                                       | Applied Linear Algebra      |          | 3.00                   | 3.00            | A+              | 12.99        | B-            | 191              |
| STAT 100                                       | Chance and Data Analysis    |          | 3.00                   | 3.00            | A+              | 12.99        | B-            | 133              |
| Term Totals:                                   |                             |          | 12.00                  | 12.00           |                 | 49.98        |               |                  |
| Cumulative Totals:                             |                             |          | 12.00                  | 44.00           |                 | 49.98        |               |                  |
| Term GPA:                                      |                             |          | 4.17                   |                 | Cumulative GPA: |              | 4.17          |                  |
| Academic Standing:                             |                             |          | Good Academic Standing |                 |                 |              |               |                  |

2024 Summer

Major in Software Systems, Bachelor of Science- Co-operative Education Computing Science

| Course             | Description                    | Repeated | Units<br>Attempted     | Units<br>Completed | Grade           | Grade<br>Points | Class<br>Average | Class<br>Enrollment |
|--------------------|--------------------------------|----------|------------------------|--------------------|-----------------|-----------------|------------------|---------------------|
| CMPT 213           | Object Oriented Design in Java |          | 3.00                   | 3.00               | A               | 12.00           | B                | 60                  |
| CMPT 276           | Intro Software Engineering     |          | 3.00                   | 3.00               | A+              | 12.99           | B+               | 82                  |
| MSE 110            | Mechatronics Design I          |          | 3.00                   | 3.00               | A+              | 12.99           | A                | 77                  |
| Term Totals:       |                                |          | 9.00                   | 9.00               |                 | 37.98           |                  |                     |
| Cumulative Totals: |                                |          | 21.00                  | 53.00              |                 | 87.96           |                  |                     |
| Term GPA:          |                                |          | 4.22                   |                    | Cumulative GPA: |                 | 4.19             |                     |
| Academic Standing: |                                |          | Good Academic Standing |                    |                 |                 |                  |                     |



Student Name: Luu, Ha Dang Thanh  
ID Number: 301592158  
Birthdate: Oct 12

Date of Issue: December 23 2024

2024 Fall

Major in Software Systems, Bachelor of Science- Co-operative Education Computing Science

| Course   | Description               | Repeated | Units Attempted | Units Completed | Grade | Grade Points | Class Average | Class Enrollment |
|----------|---------------------------|----------|-----------------|-----------------|-------|--------------|---------------|------------------|
| CMPT 210 | Probability and Computing |          | 3.00            | 3.00            | A+    | 12.99        | B-            | 101              |
| CMPT 307 | Data Structures           |          | 3.00            | 3.00            | A+    | 12.99        | C             | 136              |
| CMPT 354 | Database Systems I        |          | 3.00            | 3.00            | A+    | 12.99        | B             | 188              |
| CMPT 383 | Programming Langs.        |          | 3.00            | 3.00            | A     | 12.00        | C+            | 122              |

|                    |                                  |       |       |                 |        |  |  |
|--------------------|----------------------------------|-------|-------|-----------------|--------|--|--|
| Term Totals:       |                                  | 12.00 | 12.00 |                 | 50.97  |  |  |
| Cumulative Totals: |                                  | 33.00 | 65.00 |                 | 138.93 |  |  |
| Term GPA:          | 4.25                             |       |       | Cumulative GPA: | 4.21   |  |  |
| Academic Standing: | Good Academic Standing           |       |       |                 |        |  |  |
| Honour Roll:       | President's & Dean's Honour Roll |       |       |                 |        |  |  |

2025 Spring

Major in Software Systems, Bachelor of Science- Co-operative Education Computing Science

| Course    | Description                    | Repeated | Units Attempted | Units Completed | Grade | Grade Points | Class Average | Class Enrollment |
|-----------|--------------------------------|----------|-----------------|-----------------|-------|--------------|---------------|------------------|
| CMPT 105W | Soc. Issues & Cmns. Strategies |          | 3.00            | 0.00            |       | 0.00         | -             | 100              |
| CMPT 295  | Intro. to Computer Systems     |          | 4.00            | 0.00            |       | 0.00         | -             | 238              |
| MATH 308  | Linear Optimization            |          | 3.00            | 0.00            |       | 0.00         | -             | 114              |

|                    |      |       |       |                 |        |  |  |
|--------------------|------|-------|-------|-----------------|--------|--|--|
| Term Totals:       |      | 10.00 | 0.00  |                 | 0.00   |  |  |
| Cumulative Totals: |      | 43.00 | 65.00 |                 | 138.93 |  |  |
| Term GPA:          | 0.00 |       |       | Cumulative GPA: | 4.21   |  |  |

End of Undergraduate Record

Scholarships, Medals and Prizes

Undergraduate

2024 Fall  
Kenneth E. Mackenzie Annual Scholarship  
SFU Alumni Scholarship

--- End of Transcript ---