
Application Overview

Arfaz Hossain
September 23, 2024

This document contains the following attachments, structured as follows:

- **Page 1: Cover Letter**

This section contains a formal cover letter addressed to the hiring manager. It highlights my relevant skills, experience, and motivation for applying for the position.

- **Pages 2-3: Resume**

My resume provides a detailed overview of my education, technical skills, projects, work experiences, and volunteering activities.

- **Pages 4-6: University of Victoria Unofficial Transcript**

The transcript reflects my academic record at the University of Victoria, where I am pursuing a Bachelor of Engineering in Software Engineering.

Please feel free to reach out if you require any additional information or have any questions.

September 23, 2024

TELUS, Burnaby Office
Multiple Locations, Canada

Dear Hiring Manager:

I am writing to express my strong interest in the *Engineering, Technology and Business co-op roles* at TELUS. I am a software engineering student at the University of Victoria in British Columbia. I am eager to learn and grow in the field of computer and software engineering, and I believe that this role will help me gain valuable work experience related to my interests and help me acquire a practical understanding in a real-world setting.

Throughout my academic endeavours, I have had the chance to explore and learn about many important concepts in software engineering, such as object-oriented programming, software architecture design, agile methodologies and software testing. My academic and project experiences align well with the requirements of this position:

- **Software Development and Engineering:** I've built a diverse range of software applications, which involved developing the front-end, back-end systems along with developing micro-services for these products.
- **Data Analytics and Reporting:** I have experience in data collection, analysis, and dashboard creation, where I've extensively utilized Python and NumPy.
- **Automation and Optimization:** I have implemented numerous automation solutions across several projects which helped me optimize workflows, reduce manual tasks, and improve system performance and reliability.
- **Collaboration and Communication:** I actively mentored peers and participated in cross-functional projects that enhanced my communication and innovation skills.
- **Problem Solving and Innovation:** I enjoy tackling complex challenges with creative, efficient solutions, constantly seeking innovative approaches to drive project success and deliver value.

I am currently available for **an 8-month** work term and would be open to the possibility of participating in more than two consecutive terms. Thank you for considering my application. I look forward to the possibility of speaking with you further about this role.

Most Sincerely,



Arfaz Hossain (He/Him)
Software Engineering Student,
University of Victoria

Arfaz Hossain

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EDUCATION

University of Victoria

Bachelor of Engineering in Software Engineering

Victoria, BC

Sept. 2021 - Present

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript, Objective-C (Swift), C++, HTML/CSS, R

Frameworks and Libraries: Node, Next.js, React, Express, Material, Shadcn, Tailwind CSS

Databases: MySQL, PostgreSQL, SQLite, MongoDB, Redis, DynamoDB, CloudSQL

Developer Tools: Visual Studio, IntelliJ, JUnit, Eclipse, Maven, Gradle, Git, Docker

TECHNICAL PROJECTS

Course Planner | *Next.js, React, TypeScript, PostgreSQL, Tailwind*

Feb 2024 - Present

www.github.com/arfazhxss/course-planner

Victoria, BC

- Developed a course planning tool using Next.js to help students plan courses and track degree progress
- Integrated PostgreSQL for database management of course data and user information
- Implemented drag-and-drop functionality in React with state functions to enhance user interactivity
- Designed the User Experience using TailwindCSS to create a seamless and intuitive user experience

Automated Application System | *Bash, Python, LaTeX*

Dec 2023 - Present

www.github.com/arfazhxss/app-sys

Victoria, BC

- Automated and streamlined entire job application process optimizing workflow and data handling
- Utilized multithreading for simultaneous data extraction and processing tasks, reducing runtime by 60%
- Built command-line tools for data input, and batch file processing, reducing manual efforts by 90%
- Increased consistency by 70% by implementing proper data cleanup and extraction

Jabref - Open Source Contributions | *Java, JUnit*

Dec 2023 - May 2024

www.github.com/arfazhxss/jabref

Victoria, BC

- Developed 100+ unit tests to ensure end-to-end correctness of file lookup in JabRef's database
- Implemented 20+ caching tests to optimize JabRef's performance and memory management
- Implemented 30+ integration tests to verify correct interactions between multiple modules and classes
- Engineered end-to-end functional tests validating bibliography management workflows

Ground Support System | *React, TypeScript, MongoDB, Figma*

Jul 2023 - Jan 2024

www.github.com/UVicRocketry/Ground-Support

Victoria, BC

- Collaborated with 13 developers to create portable telemetry software for rocket performance analysis
- Developed front-end components using TypeScript and contributed to the final Figma designs
- Integrated live telemetry data from MongoDB database into MaterialUI tables for post-flight analysis
- Implemented data visualizations with MaterialUI tables and charts for engineering students

Rubik's Cube (3D Simulation) | *C++*

Feb 2023 - June 2023

www.github.com/arfazhxss/rubiks-cube-cpp

Victoria, BC

- Developed a 3D simulation with OpenGL, integrating GLSL for visuals and math operations
- Created intuitive keyboard controls for cube rotations using keys like L, J, I, K
- Enhanced user interaction with dynamic zoom via keyboard shortcuts

EXPERIENCES

Software Team Lead

Feb 2024 - Present

VikeLabs

Victoria, BC

- Collaborated with 5+ team leads to organize workshops for 100+ CS and software engineering students
- Collaborating with executives from 3+ student clubs to co-host tech events, boosting attendance by 25%
- Fostering partnerships with other student organizations, expanding resource-sharing opportunities

Graphics Coordinator

Jan 2023 - Present

Engineering and Computer Science Students Society

Victoria, BC

- Created 40+ posters and social media campaigns for engineering events
- Volunteered at 20+ events, enhancing student engagement and participation
- Updated and maintained ECSS website and exam bank accessed by 600+ engineering students

Various Positions: Grocery Clerk, Cashier and Deli Clerk

Apr 2022 - Sept 2022

Save On Foods

Victoria, BC

- Oversaw store operations with a team of 10-12 employees which ensured smooth daily workflow
- Handled customer inquiries while collaborated with 3 departments through effective communication channels
- Maintained inventory accuracy, reducing stock shortages by 7% through detailed record-keeping and rotation

Customer Service Representative, Cashier

Sept 2021 - May 2022

Tim Hortons

Victoria, BC

- Served 150+ customers daily, ensuring friendly and efficient service
- Managed cash transactions with 100% accuracy while training new staff members
- Prepared and served coffee and food to company standards, ensuring consistent quality

Data Analyst Intern

Jan 2021 - Aug 2021

Moment Touch Properties Ltd.

Dhaka, Bangladesh

- Analyzed real estate market data using Excel which improved accuracy of property valuations by 7%
- Developed Python scripts to automate data scraping and bash scripts for cleaning and analysis
- Compiled and presented data reports through automated Excel macros processes

VOLUNTEERING EXPERIENCES

Mentor, Volunteer

Jan 2023 - Present

University of Victoria Students Society

Victoria, BC

- Mentored 5 first-year students, providing academic guidance and fostering a supportive community
- Volunteered 50+ hours to support and enhance the international student experience

Rescue Volunteer

Aug 2019 - May 2021

Bangladesh Animal Welfare Foundation, Obhoyaronno

Dhaka, Bangladesh

- Advocated for responsible pet ownership through community outreach, creating 15-20 monthly posters
- Collaborated with teams of 5-7, including volunteers and veterinarians, rescuing 10-15 street animals
- Built and maintained strong relationships with local businesses to support animal welfare initiatives

Magazine and Event Executive

June 2016 - May 2019

Remians Language Club

Dhaka, Bangladesh

- Led a team of 150+ members in creating and distributing annual magazines, enhancing club visibility
- Secured sponsorships from 10+ local businesses, raising funds to support club events and activities
- Utilized Adobe Creative Suite to design educational materials for community engagement

Debater, Graphics Coordinator

Jan 2016 - Mar 2018

Remians Debating Society

Dhaka, Bangladesh

- Led a team of 5 to organize inter-school debate tournaments, attracting 100+ participants each event
- Collaborated with a team to organize over 15 debate events, ensuring smooth logistics

REFERENCES

Le Hung Nguyen

*Ph.D. Candidate, Department of Electrical and
Computer Engineering, University of Victoria*

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Mohammad Ali Akber

*Software Development Engineer,
Amazon Payment Platforms*

mail2aliakber@gmail.com

(250) 813-3070

CERTIFICATIONS, HONORS AND AWARDS

- **Recipient of University of Victorias International Entrance Scholarship** 2021 - 2022
- **International English Language Testing System (IELTS), Grade: 8.0/9.0** 2020

UNOFFICIAL TRANSCRIPT OF STUDIES AT THE UNIVERSITY OF VICTORIA

FOR Arfaz Hossain (V00984826) AS OF 28 Aug 2024

If you require additional information please consult the University of Victoria calendar
by copying and pasting the following link to your browser: <http://uvic.ca/calendar/>

Course History at the University of Victoria

| SESSION | COURSE | DESCRIPTION | UNIT VALUE | GRADE | GRADE POINT | AWARDED UNITS | NOTE | COMPARATIVE MEAN | SIZE |
|---|----------|---|---------------|--------|----------------|------------------|------|---------------------|------|
| ACADEMIC RECORD FOR UNDERGRADUATE STUDIES EXCLUDING LAW PROGRAMS | | | | | | | | | |
| WINTER 2021-2022 | | | | | | | | | |
| First Term: Sep - Dec 2021 | | | | | | | | | |
| ENGINEERING B.ENG. (CO-OP ENGINEERING) | | | | | | | | | |
| | ENGR 110 | DESIGN AND COMMUNICATION I | 2.5 | 76% B | 5 | 2.5 | | 79% | 166 |
| | ENGR 130 | INTRODUCTION TO PROFESSIONAL PRACTICE | 0.5 | 79% B+ | 6 | 0.5 | | 87% | 204 |
| | MATH 100 | CALCULUS I | 1.5 | 72% B- | 4 | 1.5 | | 72% | 209 |
| | MATH 110 | MATRIX ALGEBRA FOR ENGINEERS | 1.5 | 75% B | 5 | 1.5 | | 69% | 135 |
| Second Term: Jan - Apr 2022 | | | | | | | | | |
| ENGINEERING B.ENG. (CO-OP ENGINEERING) | | | | | | | | | |
| | CSC 111 | FUNDAMENTALS OF PROGRAMMING WITH ENGINEERING APPLICATIONS | 1.5 | 78% B+ | 6 | 1.5 | | 61% | 117 |
| | MATH 101 | CALCULUS II | 1.5 | 66% C+ | 3 | 1.5 | | 73% | 180 |
| | MATH 122 | LOGIC AND FOUNDATIONS | 1.5 | 81% A- | 7 | 1.5 | | 73% | 75 |
| | PHYS 110 | INTRODUCTORY PHYSICS I | 1.5 | 75% B | 5 | 1.5 | | 57% | 129 |
| SESSIONAL GPA = 5.04 (05MAY2022) | | | | | | | | | |
| CREDIT IN 12.0 UNITS IN GOOD ACADEMIC STANDING (05MAY2022) | | | | | | | | | |
| SUMMER 2022 | | | | | | | | | |
| Summer Session: May - Aug 2022 | | | | | | | | | |
| ENGINEERING B.ENG. (CO-OP ENGINEERING) | | | | | | | | | |
| | CSC 115 | FUNDAMENTALS OF PROGRAMMING II | 1.5 | 76% B | 5 | 1.5 | | 74% | 91 |
| SESSIONAL GPA = 5.00 (17AUG2022) | | | | | | | | | |
| CREDIT IN 1.5 UNITS IN GOOD ACADEMIC STANDING (22AUG2022) | | | | | | | | | |
| WINTER 2022-2023 | | | | | | | | | |
| First Term: Sep - Dec 2022 | | | | | | | | | |
| ENGINEERING B.S.ENG. SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | CSC 225 | ALGORITHMS AND DATA STRUCTURES I | 1.5 | 53% D | 1 | 1.5 | | 73% | 196 |
| | ECON 180 | INTRODUCTION TO ECONOMICS AND FINANCIAL PROJECT EVALUATION | 1.5 | 90% A+ | 9 | 1.5 | | 81% | 150 |
| | SENG 265 | SOFTWARE DEVELOPMENT METHODS | 1.5 | 70% B- | 4 | 1.5 | | 70% | 196 |

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|--|----------|---|------------|--------|-------------|---------------|------|------------------|------|
| Second Term: Jan - Apr 2023 | | | | | | | | | |
| ENGINEERING B.S.ENG. | | | | | | | | | |
| SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | CSC 230 | INTRODUCTION TO COMPUTER ARCHITECTURE | 1.5 | 63% C | 2 | 1.5 | | 76% | 127 |
| | ENGR 120 | DESIGN AND COMMUNICATION II | 2.5 | 88% A | 8 | 2.5 | | 87% | 173 |
| | ENGR 141 | ENGINEERING MECHANICS | 1.5 | 65% C+ | 3 | 1.5 | | 71% | 103 |
| | STAT 260 | INTRODUCTION TO PROBABILITY AND STATISTICS I | 1.5 | 65% C+ | 3 | 1.5 | | 79% | 138 |
| SESSIONAL GPA = 4.61 (08MAY2023) | | | | | | | | | |
| CREDIT IN 11.5 UNITS | | | | | | | | | |
| IN GOOD ACADEMIC STANDING (08MAY2023) | | | | | | | | | |
| SUMMER 2023 | | | | | | | | | |
| Summer Session: May - Aug 2023 | | | | | | | | | |
| ENGINEERING B.S.ENG. | | | | | | | | | |
| SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | CSC 226 | ALGORITHMS AND DATA STRUCTURES II | 1.5 | 65% C+ | 3 | 1.5 | | 82% | 107 |
| | PHIL 201 | CRITICAL THINKING | 1.5 | 70% B- | 4 | 1.5 | | 73% | 298 |
| | SENG 275 | SOFTWARE TESTING | 1.5 | 74% B | 5 | 1.5 | | 81% | 45 |
| | SENG 310 | HUMAN COMPUTER INTERACTION | 1.5 | 92% A+ | 9 | 1.5 | | 83% | 103 |
| SESSIONAL GPA = 5.25 (18AUG2023) | | | | | | | | | |
| CREDIT IN 6.0 UNITS | | | | | | | | | |
| IN GOOD ACADEMIC STANDING (21AUG2023) | | | | | | | | | |
| WINTER 2023-2024 | | | | | | | | | |
| First Term: Sep - Dec 2023 | | | | | | | | | |
| ENGINEERING B.S.ENG. | | | | | | | | | |
| SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | ASTR 101 | EXPLORING THE NIGHT SKY | 1.5 | 68% C+ | 3 | 1.5 | | 67% | 23 |
| | CHEM 101 | FUNDAMENTALS OF CHEMISTRY FROM ATOMS TO MATERIALS | 1.5 | 49% F | 0 | 0.0 | | 70% | 315 |
| | CSC 370 | DATABASE SYSTEMS | 1.5 | 57% D | 1 | 1.5 | | 66% | 130 |
| | ECE 260 | CONTINUOUS-TIME SIGNALS AND SYSTEMS | 1.5 | 20% F | 0 | 0.0 | | 67% | 96 |

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|---|----------|---|---------------|------------|----------------|------------------|------|---------------------|------|
| Second Term: Jan - Apr 2024 | | | | | | | | | |
| ENGINEERING B.S.ENG. SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | CSC 305 | INTRODUCTION TO COMPUTER GRAPHICS | 1.5 | 90% A+ | 9 | 1.5 | | 79% | 108 |
| | CSC 320 | FOUNDATIONS OF COMPUTER SCIENCE | 1.5 | 33% N | 0 | 0.0 | | 73% | 166 |
| | ECE 363 | COMMUNICATION NETWORKS | 1.5 | 73% B | 5 | 1.5 | | 82% | 99 |
| | SENG 371 | SOFTWARE EVOLUTION | 1.5 | 84% A- | 7 | 1.5 | | 85% | 80 |
| SESSIONAL GPA = 3.13 (06MAY2024) | | | | | | | | | |
| CREDIT IN 7.5 UNITS | | | | | | | | | |
| IN GOOD ACADEMIC STANDING (06MAY2024) | | | | | | | | | |
| SUMMER 2024 | | | | | | | | | |
| Summer Session: May - Aug 2024 | | | | | | | | | |
| ENGINEERING B.S.ENG. SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | CHEM 101 | FUNDAMENTALS OF CHEMISTRY FROM ATOMS TO MATERIALS | 1.5 | 72% B- | 4 | 1.5 | | 66% | 63 |
| | ECE 260 | CONTINUOUS-TIME SIGNALS AND SYSTEMS | 1.5 | 68% C+ | 3 | 1.5 | | 69% | 74 |
| SESSIONAL GPA = 3.50 (19AUG2024) | | | | | | | | | |
| CREDIT IN 3.0 UNITS | | | | | | | | | |
| IN GOOD ACADEMIC STANDING (19AUG2024) | | | | | | | | | |
| CUMULATIVE GPA: 4.36 | | | | | | | | | |
| WINTER 2024-2025 | | | | | | | | | |
| First Term: Sep - Dec 2024 | | | | | | | | | |
| ENGINEERING B.S.ENG. SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | CSC 320 | FOUNDATIONS OF COMPUTER SCIENCE | 1.5 | REGISTERED | | | | | |
| | ECE 360 | CONTROL THEORY AND SYSTEMS I | 1.5 | REGISTERED | | | | | |
| | EPHE 155 | INTRODUCTION TO NUTRITION: CONCEPTS AND CONTROVERSIES | 1.5 | REGISTERED | | | | | |
| | SENG 350 | SOFTWARE ARCHITECTURE AND DESIGN | 1.5 | REGISTERED | | | | | |
| Second Term: Jan - Apr 2025 | | | | | | | | | |
| ENGINEERING B.S.ENG. SOFTWARE ENGINEERING (CO-OP ENGINEERING) | | | | | | | | | |
| | BIOC 102 | BIOCHEMISTRY AND HUMAN HEALTH | 1.5 | REGISTERED | | | | | |
| | CSC 360 | OPERATING SYSTEMS | 1.5 | REGISTERED | | | | | |
| | ECE 310 | DIGITAL SIGNAL PROCESSING I | 1.5 | REGISTERED | | | | | |
| | SENG 321 | REQUIREMENTS ENGINEERING | 1.5 | REGISTERED | | | | | |

-----END OF TRANSCRIPT-----