Arfaz Hossain

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EDUCATION

University of Victoria Victoria, BC
Bachelor of Engineering in Software Engineering *Sept. 2021 - (expected) May 2026*

TECHNICAL SKILLS

Languages: TypeScript, Python, Java, JavaScript, Swift, C++, HTML, CSS, MATLAB, R
Frameworks and Libraries: Next.js, React.js, Node.js, Express, Material, Shadcn, Tailwind
Databases: PosgreSQL, SQLite, MongoDB, MySQL, Redis, DynamoDB, CloudSQL
Developer Tools: Visual Studio, IntelliJ, JUnit, Eclipse, Maven, Gradle, Git, Docker

EXPERIENCES

Software Team Lead | *TypeScript, React.js, Next.js* Feb 2023 - 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

Data Analyst and Marketing Intern | *Python, NumPy, Pandas* Jan 2021 - Aug 2021
MomenTous 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

TECHNICAL PROJECTS

Course Planner | *Next.js, React.js, 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.js, 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++ OpenGL* 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

Community Engagement & Volunteering Experiences

Graphics and LinkedIn Coordinator
Engineering and Computer Science Students Society

Jan 2023 - Present

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

Mentor, Tutor and Volunteer
University of Victoria Students Society

Jan 2023 - Present

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
Bangladesh Animal Welfare Foundation, Obhoyaronno

Aug 2019 - May 2021

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
Remians Language Club

June 2016 - May 2019

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
Remians Debating Society

Jan 2016 - Mar 2018

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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(236) 990-2709

Mohammad Ali Akber
*Software Development Engineer,
Amazon Payment Platforms*
mail2aliakber@gmail.com
(250) 813-3070

Honors and Awards

- **Recipient of University of Victorias International Entrance Scholarship**   2021 - 2022

Certifications

- **Next.js & React.js -** *Udemy, Maximilian Schwarzmller*   2024
- **Understanding TypeScript -** *Udemy, Maximilian Schwarzmller*   2024
- **Computational Geometry Algorithm in C++ -** *Udemy, Kasun Liyanage*   2024
- **BackEnd Development in Node.js & Express -** *Udemy, Jonas Schmedtmann*   2022 - 2024
- **Agile Fundamentals: Scrum & Kanban -** *Udemy*   2023
- **Computer Graphics with Modern OpenGL & C++ -** *Udemy, Ben Cook*   2023
- **Data Structures & Algorithms in C and C++ -** *Udemy, Abdul Bari*   2023
- **JavaScript ES6 -** *Udemy, Jonas Schmedtmann*   2022 - 2023
- **Complete Web Bootcamp -** *Udemy, Angela Yu*   2021