Arfaz Hossain

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EDUCATION

University of Victoria Victoria, BC
Bachelor of Engineering in Software Engineering *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, PosgreSQL, 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

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(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