

Afshin Rahman

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HIGHLIGHTS OF QUALIFICATIONS

- **Communication skills:** Developed communication skills at my workplace where I have to communicate with customers and coworkers and public speaking in engineering leadership events
- **Problem solving skills:** Undertake weekly coding challenges which are time sensitive and require critical thinking and problem solving skills to complete.
- **Teamwork skills:** Enjoy working as a team member as well as independently. I work in a team-oriented environment where communication is important.
- **Programming Knowledge:** HTML, CSS, C++, C, Java, JavaScript, NodeJS, MySQL

EDUCATION

Bachelor of Science, 3rd Year Software Engineering September 2017 to Present
University of Calgary, Alberta

- **Data Structures and Algorithms:** Focused on data structures and algorithms, such as time complexity, graphs, double linked lists, and searching/sorting algorithms.
- **Software fundamentals:** Java based course which focuses on polymorphism, client-server, Java GUI interface, socketing and relationships between classes such as aggregation, composition, association. Heavy focus on UML notation and design.
- **Software design principles:** Focused on C++ fundamentals, design patterns and Object-Oriented designs. Learned and polymorphism, generics, realization etc. in C++, and important design patterns such as observer and decorator.
- **Database Management:** Database management; includes learning SQL syntax and how to perform actions to update a database and prevent SQL injection. Build a website using PHP and MySQL as the backend, and HTML, CSS as the frontend
- **Software Architecture:** Focus on software architectures such as micro services, database per service, MVC, CQRS and event sourcing. Built a website using a backend in Java and MySQL, and front end in HTML and CSS
- **Testing:** Focus on testing fundamentals such as blackbox testing and whitebox testing, GUI automation testing (Sikulix) and writing test cases. Test cases focus on finding and killing mutants, and increasing code coverage using flow diagrams

- **Udemy/W3School:** Grasped solid understanding of HTML, CSS, and JavaScript
- Jason Lang Scholarship for 2017 and 2018

RELATED EXPERIENCE

Projects

- **Connect Live:** An online website with a frontend in HTML, Javascript and backend in NodeJS, MySQL. Allows users to interact with one another through topics, posts and a comment on posts. Application uses the MVC architecture.
- **Online Product Registration System:** Online website with a front end in HTML, CSS with a backend in PHP and MySQL, which allows users to buy products from a catalogue, add items to the catalogue and view and change their items.
- **Property Rental System:** A GUI application with a front end in Java GUI and a backend in Java and MySQL. Allows for 4 different user modes (Manager, Customer, Landlord, Registered Customer) in which each user has different functionalities.
- **PostIt (Quora-like System):** Online website with frontend in HTML and JSP with a backend in Java and MySQL. This website allows users to create topics, create posts and comment on posts, using software architectures such as event-sourcing, CQRS and MVC.
- **Tool Shop Registration System:** A tool shop made with a front end in Java GUI and backend in Java and MySQL. Basic functionalities allow users to list, add, and remove tools from an inventory, managed by a database.

Engineering Leadership

September 2018 to Present

- Demonstrated leadership by carrying out tasks and presentations within a strict deadline to first year students, explaining the opportunities and pros of pursuing a programming career.

ADDITIONAL EXPERIENCE

McDonalds

July 2017 to Present

- Work with a team of numerous people in order to carry out tasks and maximize efficiency, leading to overall better teamwork.
- Accustomed to a fast paces, stressful, time sensitive environment.
- Assigned with multiple tasks simultaneously.
- Accustomed to working independently if needed.

University of Calgary Orientation Leader

September 2019

- Responsible for leading a group of first year students around campus, and getting the students accustomed to a new environment.

INTERESTS

- Coding challenges
- Travelling: Countries visited include South Africa, Dubai, USA, Zimbabwe