

ALIM DHUKA

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TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, SQL, R, Racket, Assembly

Web Technologies: HTML, CSS, JavaScript, Node.js, React.js, Angular.

Developer Tools: Git, GitHub, Visual Studio Code, MySQL, MS Office (Excel, Word, PowerPoint), PyCharm, Jira.

Operating Systems: Windows, Linux, MacOS, iOS, Android

EXPERIENCE

Software Engineer Intern

Aug 2024 - Present

Consuy

Calgary, AB

- Developing front-end applications using React JS to create user-friendly interfaces and enhance the user experience across various web platforms.
- Integrating systems by creating RESTful APIs and contributing to back-end solutions using Python, with a focus on AI and Robotic Process Automation (RPA) initiatives.
- Collaborating with cross-functional teams on AI and RPA projects, driving innovation and supporting the development of cutting-edge technology solutions at Consuy.

Embedded Firmware Engineer

July 2024 - Aug 2024

Waterloo Aerial Robotics Group (WARG)

Waterloo, ON

- Developed firmware for STM32 microcontrollers using STM32 Cube IDE, controlling ADC and PWM peripherals for a Motor Tester project.
- Integrated SPI protocols for real-time data conversion between microcontrollers and ADC chips.
- Configured microcontroller pins, debugged compiler errors, and submitted code via GitHub for high-quality embedded systems development.

Research Assistant Intern

Dec 2021 - Jan 2022

HSM

Mumbai, IN

- Achieved a top 200 ranking in a 15-day STEM internship in India.
- Conducted research and authored an essay on scientific contributions to COVID-19. Analyzed three discoveries in physics and chemistry for their impact on COVID-19 management and future pandemic preparedness.

PROJECTS

E-commerce Platform | *Angular 15+, Node.js, Express.js*

May 2024 - Present

- Developed an e-commerce platform with Angular 15+ for a dynamic and responsive UI.
- Implemented RESTful APIs using Node.js and Express.js for efficient backend communication.
- Integrated Stripe for secure payment processing, ensuring a smooth checkout experience.

Real-Time Chat Application | *JavaScript, React.js, Node.js, Express.js, Socket.io*

Jan 2024 - April 2024

- Built a real-time chat app using React.js for an interactive and responsive UI.
- Implemented server-side logic with Node.js and Express.js for user authentication and data storage.
- Utilized Socket.io for real-time communication, enabling instant messaging and live updates.

Interactive Personal Portfolio | *HTML, CSS, JavaScript*

Sept 2023 - Dec 2023

- Designed and developed an interactive portfolio using HTML, CSS, and JavaScript.
- Implemented smooth navigation and dynamic content display with JavaScript.
- Styled the portfolio with CSS for a visually appealing and responsive layout.

Chess Game Implementation | *C++, XQuartz*

June 2024 - July 2024

- Developed a full-featured chess game in C++ with XQuartz, incorporating all standard functionalities.
- Utilized concepts from CS246, including STL, Observer pattern, MVC design, and OOP principles.
- Implemented an AI player with four levels of difficulty using Reinforcement Learning.

Mall Application | *Java with BlueJ*

Oct 2020 - Dec 2020

- Developed a comprehensive mall management app using Java with BlueJ for managing stores and inventory.
- Implemented features like store registration, product listings, and sales tracking.
- Utilized OOP principles and designed an intuitive UI within BlueJ for easy interaction.

EDUCATION

University Of Waterloo

Waterloo, ON

Bachelor of Mathematics in Computer Science(Co-op)

August 2023 - April 2028

- Relevant Coursework: Object-Oriented Programming, Data Structures and Algorithms, Computer Organization and Architecture, Compilers, Tools and Techniques for Software Development.