ALIM DHUKA

+1 548-398-3130 | adhuka@uwaterloo.ca | linkedin.com/in/alim-dhuka | github.com/Alim-bit

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.

Experience

Full Stack Developer Intern Oct 2024 – Present

Iter Innovandi *Toronto, ON*

- Assisted in developing and maintaining web applications, ensuring seamless front-end and back-end integration.
- Built scalable RESTful APIs using Node.js and Express.js, ensuring secure and efficient data handling.
- Collaborated with cross-functional teams to integrate AI-driven features into web applications, enhancing personalization and functionality.
- Improved application performance by reducing page load times by 25%, boosting user engagement and conversion rates.

Software Engineer Intern Aug 2024 – Present

Consuy *Calgary, AB*

- Led the AI team and coordinated with frontend and backend teams to create scalable AI and RPA solutions that improved automation and system efficiency.
- Developed React.js front-end applications and Python-based APIs, integrating chatbot features with dynamic questioning, Azure Service Bus, WebSockets, and reinforcement learning for ticket optimization.
- Followed Agile and SDLC methodologies, utilizing Azure DevOps, GitHub, Docker, Python, React.js, FastAPI, and Azure services for scalable development and deployment.
- Delivered a scalable, future-ready solution tailored for startup needs, ensuring adaptability for new features and seamless integration across teams.

Embedded Software Developer 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, which improved testing efficiency and accuracy.
- Enabled real-time data conversion using SPI protocols between microcontrollers and ADC chips.
- Debugged and configured systems, ensuring high-quality embedded solutions via GitHub

Projects

Task Management Application | *MERN* Nov 2024 - Present

- Developed a responsive task management web application with CRUD operations using the MERN stack.
- Integrated SMLs models for task prioritization and personalized recommendations, enhancing user interactions.
- Implemented secure user authentication and optimized database queries, improving API response times by 20%.

E-commerce Platform | *Angular 15+, Node.js, Express.js* May 2024 - Aug 2024

- 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.

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.

Technical Skills

Programming Languages: JavaScript, Python, HTML, CSS, Java, C/C++, SQL

Frameworks/Libraries: React.js, Angular, Next.js, Express.js, Tailwind CSS

Developer Tools: Git, Docker, Jenkins, AWS, Azure, PostgreSQL, MongoDB, Visual Studio Code, PyCharm

Methodologies: Full-Stack Development, Object-Oriented Programming, API Design, Unit Testing, Agile