Labib Zaman

C 647-619-9344 ■ labibmzaman@gmail.com in /labibmz • C /LabibZ • portfolio

SKILLS

Languages: C++, C, Python, Java, C#, PostgreSQL, JavaScript, Bash, R

Frameworks/Tools: OpenCV, React, Node.js, Express.js, Redux, pandas, NumPy, Firebase

Tools: Linux, Git, MongoDB, AWS, Jira, Jupyter, Figma, Agile

EXPERIENCE

Software Engineer Intern

May 2021 – August 2022

Magna

Brampton, ON

- Developed and optimized C++ components for ADAS features (Pedestrian Detection, Auto Parking, etc.), focusing on code efficiency for real-time embedded systems.
- Refactored 2000+ lines of legacy code to improve readability and achieve a 10% performance gain.
- Built a **Python-based** CAN translation tool, improving data flow for in-vehicle systems by 25%, ensuring seamless communication between software and hardware components.
- Designed and executed **unit tests**, **simulation scenarios**, **and test automation** to ensure robust behavior under various conditions (Low Light, etc.), promoting **software reliability**.
- Extended Magna's proof-of-concept **API** with custom plugins, including a **cross-functional logging feature**. Improved algorithm performance monitoring throughout development and testing.
- Contributed to all phases of the **software development lifecycle** (development, testing, deployment) and managed **Git** repositories (32-bit and 64-bit) to ensure code integrity and maintainable deliverables.

Data Analyst Intern

Sep 2020 - Apr 2021

Bank of Canada

Ottawa, ON

- Developed **Python** scripts (pandas, NumPy) to reduce data analysis time by 20%, streamlining extraction from large-scale databases.
- Applied **Agile principles** to deliver iterative software solutions within a cross-functional development team.

EDUCATION

B.S. in Computer Science & Mathematics

Toronto, ON

University of Toronto

Dec 2023

Relevant Courses – Data Structures & Algorithms, Operating Systems

PROJECTS

Car Showcase App | React.js, Next.js, TypeScript, Tailwind CSS (%)

Apr 2024

- Built a performant car showcase platform using **Next.js** for server-side rendering, optimizing SEO and user experience.
- Implemented robust filtering and pagination (**TypeScript**) to refine datasets, ensuring seamless navigation.

Real Estate Marketplace App | MERN, Firebase, JWT (%)

Mar 2024

- Engineered a user-friendly real estate platform with **React**, **Express**, **Node.js** and **Tailwind CSS**, delivering a responsive experience across devices.
- Implemented secure authentication using industry-standard protocols (JWT, OAuth) and integrated Firebase for backend services.
- Designed and built **CRUD** functionality for property listings (**MongoDB**), fostering seamless user interactions with the database

Miscellaneous

Certifications: Machine Learning Specialization – DeepLearning.AI, Stanford University

AWS Solutions Architect Associate – Expected June 2024

Interests: Photography, muay thai, learning languages, travelling, sudoku, tetris, calligraphy