

# Labib Zaman

☎ 647-619-9344   ✉ [labibmzaman@gmail.com](mailto:labibmzaman@gmail.com)   in [/labibmz](#)   🌐 [/LabibZ](#)   📁 [portfolio](#)

## SKILLS

**Languages:** Python, C++, Java, C, C#, PostgreSQL, HTML, CSS, JavaScript, Bash, R  
**Libraries/Frameworks:** React, Node.js, Express, NumPy, pandas, OpenCV, Redux, TensorFlow  
**Other:** Git, MongoDB, AWS, Jira, Figma, Jupyter, Agile

## EXPERIENCE

### Software Engineer Intern

May 2021 – August 2022

*Magna*

*Brampton, ON*

- Developed and optimized **C++ components** for ADAS features (Pedestrian Detection, etc.), focusing on code efficiency within a real-time environment.
- 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 **logging feature** for **cross-team analysis**. 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 streamline **data extraction and analysis** from **large-scale databases**, enabling faster insights within the IAM team
- Automated administrative tasks using **PowerShell** scripting, improving operational efficiency by 35% and demonstrating proficiency with Active Directory.
- Automated data transformation and cleanup** using **VBA** in Excel, reducing analysis time by 50%.

## 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

## EDUCATION

### B.S. in Computer Science & Mathematics

Toronto, ON

*University of Toronto*

*Dec 2023*

## MISCELLANEOUS

**Certifications:** Machine Learning Specialization – *DeepLearning.AI, Stanford University*  
AWS Solutions Architect Associate – *Expected May 2024*

**Interests:** Learning languages, travelling, trying new foods, muay thai, sudoku, tetris, calligraphy