

Mark Baula

647-675-3597 | markbaula.1@gmail.com | <https://markbaula.com> | [linkedin.com/in/mark-b17](https://www.linkedin.com/in/mark-b17) | <https://github.com/mbaula>

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML/CSS, Python, SQL, Java, C#

Frameworks/Packages: React, Cypress, Express, Next.js, TailwindCSS, Selenium, Pandas, Scikit-learn, Keras

Developer Tools: Git, Docker, AWS, Kubernetes, Azure, Google Cloud Platform, PyCharm, Snowflake, VS Code, DBT

EXPERIENCE

Software Developer

May. 2025 – Aug. 2025

CIBC

Toronto, ON

- Reduced loading times by 90% for the centralized microservice portal, by removing legacy NAS and database logging configurations across 30+ microservices
- Migrated 1TB+ of regulatory and financial reports from NAS to Azure Blob Storage with AzCopy scripts
- Reduced storage costs by designing and enforcing Azure Blob LCM policies for automated tiering and deletion
- Improved incident response by configuring automated KQL email alerts for soft-deletion events and expiring files
- Initiated the development of an ML model to predict trade status based on historical trade data, leveraging Python, TensorFlow, Keras, Spark, and Azure ML tools

Software Developer

May. 2024 – Dec. 2024

CIBC

Toronto, ON

- Halved the number of manual workflows required by automating data product creation/validation through Python
- Improved operations by extending support for template parsing, data validation and dynamic SQL generation
- Enhanced the data workflow efficiency of 3+ teams by creating a self-serve data ingestion framework with automated table creation, schema evolution and detailed logging
- Cut testing time by 83% by upgrading an existing migration framework to accept CSV inputs and validate SRDs

Full Stack Developer

Sep. 2022 – Dec. 2022

Borderless

Toronto, ON

- Achieved 75% coverage and cut test time 55% by building a Cypress E2E test suite integrated with GitLab CI
- Reduced development time 40% by creating reusable React components for consistent UX/UI
- Delivered 10+ KPI dashboards by building data pipelines with DBT, Fivetran, Snowflake, and Looker
- Drove userbase growth by 10x in 2 months by developing backend schemas and APIs for real-time payments

Data Analyst

Sep. 2021 – Apr. 2022

CIBC

Toronto, ON

- Automated competitor interest rate collection using Selenium and Pandas, streamlining competitive analysis
- Delivered a 60% reduction in codebase size and a 20% boost in run-time speed by optimizing the scraper codebase
- Facilitated a 70% reduction in manual recording time from reports through the development of a VBA macro

Software Developer

Jan. 2021 – Apr. 2021

University of Waterloo/National Research Council Canada

Waterloo, ON

- Developed environments within OpenAI Gym to simulate chemistry labs using Python, enabling advanced RL and Active Learning algorithm testing for new chemical and materials discovery

PROJECTS

DeepLearning.AI

- Utilized Keras and LSTM networks to generate a 30-second improvised jazz solo
- Generated art with deep learning by transforming images into different styles using neural style transfer

ViSimulate

- Created ViSimulate, a web application that simulates 12 different visual impairments through images, using React.js, for an interactive educational experience

EDUCATION

University of Waterloo

Bachelor's of Applied Science in Mechatronics Engineering

Waterloo, ON

Expected Graduation: Apr. 2028