Baker Jackson

647-633-4408 | bakerwjackson@gmail.com | linkedin.com/in/baker-jackson | github.com/BakerWJ

EDUCATION

University of Toronto — Sep 2020 – Apr 2024
Bachelor of Science in Computer Science — *Toronto, ON*
- GPA: 3.71/4.0, University of Toronto Scholar
- Relevant Coursework: Data Structures & Algorithms, Software Design and Engineering, Programming on the Web

EXPERIENCE

IBM — May 2022 – Aug 2022
Backend Developer Intern — *Austin, TX*
- Developed a file analysis tool that provides information on file content, collaboration history, and confidentiality, resulting in a 62% decrease in the escalation time of data loss prevention cases
- Created process for extracting and analyzing keywords from files in cloud storage using Yake and the Box API
- Designed database schema to store folder structure and file metadata using PostgreSQL
- Implemented GraphQL resources that return file information and analysis using Graphene and FastAPI
- Integrated a dashboard with file statistics into the corporate security web portal using Vue.js and Nuxt.js

16 Bit Inc. — Mar 2021 – Sep 2021
Software Engineer Intern — *Toronto, ON*
- Built a user console for an osteoporosis machine learning model that allows doctors to upload x-rays and receive a comprehensive bone-mass density report using Flask and React
- Developed the image upload flows where an x-ray is submitted with patient information, analyzed by a machine learning model, and stored in AWS S3
- Implemented a CI/CD pipeline that tests the Flask application and deploys to AWS Fargate and RDS
- Collaborated with designers to improve web page usability and accessibility features to obtain FDA approval

RiskLab, University of Toronto — May 2021 – Oct 2021
Research Assistant — *Toronto, ON*
- Co-author of *Assessing the Impact of Sustainability on Fund Flows: An Excess Information Approach and US-Based Case Study*, published in the the Journal of Impact and ESG Investing
- Investigated the impact of ESG factors on fund flow by comparing the performance of random forest models
- Performed data analysis on Morningstar fund data to identify key features and created visualizations with seaborn

Financial Risk Group — Jul 2020 – Sep 2020
Software Engineer Intern — *Cary, NC*
- Created tool for developers to upload and download weights of machine learning models using React and Express

PROJECTS

Merit Award Scholarship Platform — https://github.com/uoftblueprint/merit-award
- Developed a scholarship platform that handles over 1,000 student applications annually for the Merit Award Bursary Fund using the MERN stack
- Implemented customizable form functionality that allows a user to create application questions in Airtable, import them to the backend using the Airtable API, and display them in the frontend with field validation using Formik

STEM Fellowship Journal Submission — https://github.com/BakerWJ/Big-Data-Challenge
- Modeled hurricane behaviour with NOAA and NCAR datasets using NumPy, pandas, and XGBoost
- Paper awarded the national Let's Talk Science Analytics Talent Award after evaluation by 3 Ph.D judges

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript, TypeScript, HTML/CSS
Frameworks: Flask, FastAPI, React, Node.js, Express, Vue.js, MongoDB, PostgreSQL
Developer Tools: Git, Docker, TravisCI, Amazon Web Services (S3, RDS, Fargate)

INTERESTS

Building Mechanical Keyboards, Volleyball, Bullet Chess, Movie Soundtracks