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EDUCATION

University of Waterloo

September 2023 - Present

Bachelor of Computer Science - 90% / 3.95 GPA

Waterloo, ON

- Scholarships and Awards: National Mathematics Scholarship (\$15,000), President's Scholarship (\$2,500)
- Coursework: Algorithm Design, Compilers (Adv.), Functional Programming, Object Oriented Programming

TECHNICAL SKILLS

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

Libraries/Frameworks: Next.js, React.js, Flask, Node.js, Pandas, NumPy, SciPy, Selenium, OpenCV, Tailwind

Databases/Cloud: PostgreSQL, SQL Server, MongoDB, AWS, Firebase

EXPERIENCE

Software Engineer Intern

January 2025 - Present

NationGraph

San Francisco, CA

 Built custom ETL pipelines with table detection and LLM extraction to optimize and automate processing unstructured PDFs into database, improving accuracy by 400+% and reducing cost by 60+% using Python and Airflow

Software Developer Intern

May 2024 - August 2024

SaFuture Inc

Toronto, ON

- Architected and built 40+ features, 25+ components, and 14 pages, bringing an equipment management app from prototype to production with a React frontend, C# .NET Core backend and SQL Server database
- Implemented performance optimization strategies using React.lazy() and React Suspense for dynamic code-splitting. reducing initial bundle size by 45%
- Engineered robust pipelines for importing, exporting, and managing data via Excel, enabling offline equipment management. Built with C# and VBA, reduced manual input errors and saved 3+ hours of validation per sheet
- Automated PDF filling and generation on a report-writing platform for homeowners using Selenium, reducing manual efforts by 20 hours per week

Research and Product Development Intern

June 2022 - August 2022

McMaster University, Supervisors: Dr. Rong Zheng

Hamilton, ON

- Developed a data-driven product for swimmers to track important performance metrics using wearable sensors (MetaSensors), allowing coaches to track statistics of entire teams
- Collected and processed 10,000+ points of sensor data (euler angles, acceleration, etc.), and wrote scripts to analyze 7+ key swim metrics such as stroke count, lap average, underwater distance, using SciPy, NumPy and Matplotlib

PROJECTS

GitInsights (7) | TypeScript (Next & Express), PostgreSQL

@ Hack The 6ix

- Created a developer tool using Next.js, Express, and PostgreSQL to improve developers' understanding of codebases, placing 2nd out of 300+ participants
- Integrated Llama 3.1 with Ollama and RAG to categorize commits through a tagging system and produce accurate summaries for code changes in each commit with GenAl
- Implemented an interactive visuals for users using D3.js, enabling users to track code activity across multiple branches

Memoir () | JavaScript (React), Python (Flask), MongoDB

@ UofTHacks

- Created a social media platform with account creation, user authentication, post creation, and data clustering
- Employed Cohere for semantic analysis, then processed with a BIRCH Clustering algorithm to group posts by content
- Implemented a connected node graph feature using Scikit-learn and D3.js, visualizing clustered data points

Solaris (7) | Godot, GDScript

- Created a 2D platformer game using Godot, with interactive elements, 10+ equipable items, and 50+ levels
- Built a variety of gameplay, ranging from game environment to boss levels, using a combination of Godot Engine nodes and scripts in GDScript