

Adam Zielinski

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EDUCATION

University of Guelph

Sep 2021 – Apr 2026

B.Comp in Computer Science (CO-OP), Minor in Project Management

Guelph, ON

- **Relevant Courses:** Data Structures and Algorithms, Software Engineering, Object Oriented Programming
- **Academic Achievements:** Academic All Canadian. Awarded to students on a varsity team with an 80+ average

SKILLS

Programming Languages: Python | Java | C++ | C | C# | JavaScript | MATLAB | Simulink

Technologies: AWS B/S/E/EC2/ELB | Azure AD | Docker | React.js | Flask | Redis | Spring | Android

EXPERIENCE

Ontario Health

May 2023 – Dec 2023

Software Developer Intern

Toronto, ON

- Developed a secure messaging mobile application using **React Native**, **Realm DB**, and **Azure**, allowing **30,000+ physicians** in Ontario to seamlessly and securely message one another.
- Automated the deletion of outdated files in **AWS S3** to allow for rapid cloud deployment, utilizing **AWS Lambda** and **Python**, eliminating manual file clean-up and **increasing efficiency by over 200%**.
- Revamped GitHub build scripts using **YAML** and **Github Actions** to slash potential update times by **up to an hour for each workflow revision**, benefiting **tens of users**.

Ontario Health

May 2024 – August 2024

Software Developer Intern

Toronto, ON

- Designed a web app to fetch and display patient info using an **ASP.NET** framework with **HTML**, **CSS**, **C#**, and **Auth0** to handle secure authentication.
- Used a **REST API** to receive data from the **HAPI FHIR Test Server**, giving access to over **700,000+** sample patients and their info.
- Deployed the web app on **AWS** and **Azure** using **CI/CD** pipelines to automatically upload the code from **Github** when changes were made, giving up to date access to **30,000+ physicians** in Ontario.

PROJECTS

Molecule Display Full Stack Program

C | Python | HTML | CSS | SQL

- Independently built an application to accept SDF files of molecule representations and creates an accurate SVG image of the molecule to display to the user.
- Applies a **real time C back-end** to efficiently create the molecular representations and a **SQL** database to store the information.
- Uses a **Python** web server to interact with the **real time C back-end** and the **HTML**, **CSS** front end which displays the **SVG**.

Java Connect Four Game

Java

- Created a fully functional Connect Four Game in **Java** using the terminal to simulate an easy to use **UI** experience.
- Expertly applied **OOP principles** ensuring the code is modular, changeable, and maintainable.

Firebase To-Do Application

HTML | CSS | Javascript | NoSQL | Google Cloud

- Developed a to do list web application with a **user-centric UI** using **HTML**, **CSS**, **Javascript**.
- Allows users to store content in a **NoSQL database** hosted in **Google's Cloud Firestore**, allowing automatic scaling and realtime updates.
- Applies end-to-end user authentication with **Google's Firebase Authentication**, giving the user a quick and secure log in experience.

Dental Receipt Maker

Java | JavaFx

- Produced a application using **Java** and **JavaFX** with an intuitive user friendly **UI** allowing users to create a receipt based on entered information.
- Expertly applied **OOP principles** ensuring the code is modular, changeable, and maintainable.

NBA Games Predictor

Python | Jupyter Notebook

- Created a program to predict the outcome of future NBA games using past data and a **machine learning model** in **Python** and **Jupyter Notebook**.
- Achieved a **63%** accuracy score using techniques like **rolling averages**, **back testing**, **ridge classifiers**, and others.

StretchPro

Javascript | React.js | Android | AWS

- Built a mobile application in **React Native** for **Android** to provide **6+ hours** of stretching workouts and **100+ individual stretches**.
- Designed an aesthetic and user friendly UI using key concepts like **hierarhcy**, **contrast**, **constistency**, and others.
- Deployed the application on **AWS Amplify** to provide secure authentication and storage for data.

LEADERSHIP EXPERIENCE

Guelph Gryphons Varsity Swim Team

Sep 2024 – April 2025

Team Captain

Guelph, ON

- Led a team of **30+ varsity athletes** by managing team activities and ensuring each member was held accountable for their responsibilities.
- Developed a multi step plan to motivate athletes and help them achieve their desired goals.