

Isaac Abell

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EDUCATION

University of Toronto

B.Sc. Computer Science, Statistics

Sep. 2022 – May 2026

CGPA: 3.53

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL (PostgreSQL)

Frameworks: React, Node.js, FastAPI, Spring Boot

Libraries: pandas, NumPy, Matplotlib, scikit-learn, PyTorch, OpenCV

Developer Tools: AWS(EC2, Lambda, S3, RDS, Amplify), GCP(Vertex AI, GCS), Git, Docker, GitHub Actions

EXPERIENCE

iXp Intern - Full Stack Developer

SAP

May 2024 – Present

Toronto, ON, Canada

- Developed a real-time computer vision-based engagement tracking ML model to help designers optimize customer engagement at SAP Experience Centers, by using transfer learning on ResNet-101.
- Worked with a team of 5 interns to build SAP Demo Environment 2.0, a platform currently used by 20,000+ internal users and partners to present SAP solution demos; developing the front end with TypeScript/React and adding a Node.js REST API layer to organize backend data for integration with the front end.
- Worked full time while attending university

Research Assistant (part-time, for course credit)

University of Toronto Intelligent Adaptive Interventions Lab

Sep. 2024 – May 2025

Toronto, ON, Canada

- Built and deployed a full-stack web app to test the lab's AI teaching assistant in real-world applications, developing a FastAPI backend, React frontend, and hosting backend services on AWS EC2/S3 with frontend deployment via AWS Amplify.

Software Engineering Intern

Appex

May 2023 – August 2023

Boston, MA, USA

- Built and deployed an app review summarization tool to generate monthly summaries for development and UX teams, enabling them to prioritize app fixes more efficiently, by using the OpenAI API, leveraging prompt engineering and automated AWS services (CloudWatch/Lambda for monthly execution, SES for email notifications).
- Reduced AWS costs by \$2,500/month by replacing a macOS EC2 instance used for APNs token signing with a Linux-based implementation using portable credentials.

Software Engineering Intern

Guavy

May 2021 – August 2021

Victoria, BC, Canada

- Developed Puppeteer scripts to scrape websites, enhancing the volume and quality of data in Guavy's databases.
- Created Cypress tests to validate website functionality prior to deployment, ensuring a reliable user experience.

PROJECTS

Rental Listings Website with Commute Filter | GitHub Repo | Live Site

- Engineered a full-stack rental search platform with a React front end and serverless backend, allowing users to search and filter rental listings based on commute time to a specified destination.
- Developed a hybrid data pipeline in Python that scrapes real estate listings locally (to bypass IP address blocks) and stores them in AWS S3 for downstream processing.
- Deployed a serverless backend using AWS Lambda and a SQL database on AWS RDS, automating updates from S3 and exposing a REST API for real-time filtering.
- Technologies Used: Python, SQL, JavaScript, React, Docker, GitHub Actions, AWS

Algorithm Visualizer Website | GitHub Repo | Live Site

- Built an interactive web tool to visualize classic algorithms including DFS, BFS, Quicksort, Heapsort, and Binary Search.
- Implemented step-by-step animations using React and Framer Motion, allowing users to trace array and graph operations in real time.
- Technologies Used: React, TypeScript, Framer Motion