

# Sarp Kose

sarp.kose@mail.utoronto.ca

+1 (437) 987 1860

[linkedin.com/in/sarpkose](https://www.linkedin.com/in/sarpkose)

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## EDUCATION

### University of Toronto

Sept 2020 - May 2025

Bachelor of Applied Sciences in **Computer Engineering**, Minor in **History**

Awarded the University of Toronto's International Scholar Award for academic excellence

**Courses:** Algorithms & Data Structures, Databases, Computer Networks, Deep Learning, Operating Systems

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## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), TypeScript, C/C++, Python, PostgreSQL, HTML, CSS

**Tools:** React Native, React JS, Jest, Git, AWS, PyTorch, Next.js

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## EXPERIENCE

### Software Developer | Geotab

Sep 2023 – Aug 2024

- Developed the frontend of Geotab's Intelligent Transportation System using React and Mithril
- Worked with GeoJSON data and used Turf and Mapbox GL for geographic visualization of big data
- Built middleware to handle big data queries, API calls, error handling, and data processing with Next.js
- Utilized caching and local forage to enhance the efficiency and reduce load times
- Delivered presentations to stakeholders on new features
- Implemented unit tests with Jest to ensure quality of code, achieving 90% code coverage

### Software Developer | TXIO

Jun 2023 – Sep 2023

- Collaborating with a team of developers to build TXIO's web and mobile personal banking application using **TypeScript**, **React Native**, and **React**
- Implemented a system for users to categorize, filter, and manage their expenses by using custom-made tags
- Created pop-ups and help guides to increase the usability and intuitiveness of the mobile application
- Refactored the Financial Goals section to improve the comprehensibility of users' long-term goals

### Cofounder & Lead Software Developer | Sheer

May 2021 – Apr 2023

- Led a development team of 4 in building the full stack of an IOS and Android mobile social media application that matches friend groups
- Used **JavaScript** and **React Native** in the frontend and **Python** in the backend and deployed to **AWS**
- Integrated 3<sup>rd</sup> party systems to implement the real-time chat messaging feature of the application
- Raised funds by contacting angel investors to finance the development team and the marketing campaign, provided monthly expense reports to the investors
- Oversaw the beta testing of the product on the Test Flight app to reproduce, report, and fix bugs

### Trading Analyst Intern | Ahlatci Holding

Sep 2020 - Nov 2020

- Observed and analyzed financial statements and qualitative data to anticipate the stock markets' reaction and traded in the market accordingly
- Conducted meetings with C-level executives of Ahlatci Holding to report my transactions and got feedback
- Returned over 20% on profits on the initial capital allocated to me for the internship

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## PROJECTS

### Leukemia Detection Model

- Built a deep learning model to diagnose and classify Acute Lymphoblastic Leukemia from patients' blood smear images, using **Python** and **PyTorch**
- Processed over 4000 images and used data augmentation methods to improve available image datasets
- Implemented transfer learning from ResNet-18 to speed up the training process and increase accuracy
- Finetuned hyperparameters to obtain estimation confidence levels over 91%