

ALEXANDER ROSEN

University of Toronto

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<https://github.com/alexrosen45>

EXPERIENCE

Software Engineer - UTMIST

OpenQuant and WallStreetBots2

📅 December 2022 - Currently 📍 Toronto

- OpenQuant: I help build, package and test openquant, a soon to be released Python library for accessing pre-trained models to build trading algorithms.
- WallStreetBots: I Contribute to a project for sentiment analysis to predict the price movements of cryptocurrencies.

Software Engineer Internship - GetOppos

What I built: oppossecure.com

📅 May - September 2022 📍 Toronto, Canada

- Designed a state-of-the-art production server and database for a Django project using PostgreSQL, Nginx, Unicorn, and Unix sockets on Ubuntu 20.04.4 (with an SSL certificate)
- Built a custom shipping manifest for efficient product fulfillment
- Created an in-house subscription system that takes Credit, Debit, and Google Pay using Stripe as a payment gateway (included promotional code system and automatic charges without storing sensitive card information)
- Implemented an SMTP email alert system and an authentication scheme with typical features, for example, a password reset system by email
- Built secure API and Webhook HTTPS endpoints
- Designed a full-text search system to search through thousands of logs/alerts

AWARD WINNING PROJECTS

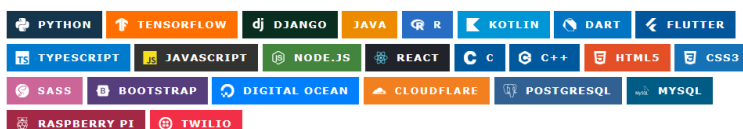
Slidesmart - <https://devpost.com/software/slidesmart>

- Slidesmart uses advanced machine learning algorithms and APIs to curate customized slides using your presentation's audio or script.
- This project won first place at EduHacks.

tPay - <https://devpost.com/software/tpay>

- tPay enables students to securely authenticate payments on campus at UofT using only their face.
- This project won the Synopsys sponsored "Smart Everything" award.

FAVOURITE TECHNOLOGIES



EDUCATION

Computer Science - 4.0 GPA

University of Toronto

📅 September 2022 - Currently

IB Diploma

The York School

📅 September 2020 - May 2022

PERSONAL PROJECTS

All projects can be found on my GitHub, linked in the header.

Pricing Bitcoin Call Options

- Pricing european-style Bitcoin call options with a modified version of the Black-Scholes model. Read more here: https://github.com/alexrosen45/bitcoin_call_options_public-

Snacker

- Snacker is a real-time food truck locator app (Android and iOS). Building Snacker using the Flutter framework with GCP allowed me to gain enough experience and confidence to work as a full-stack developer.
- The app reached ~1000 downloads, and you can check out the (deprecated) version here: <https://sites.google.com/view/snacker-download?pli=1>

Dogebot - Trading Bot

- Dogebot is a Python powered trading bot used to analyse the price movements of Dogecoin after Elon Musk tweets about it.

Personal Website version 2

- A website for displaying my projects and contact information: <https://arpersonalwebsite.com/>

COVID-19 Information App

- An app that displays data using API's from Johns Hopkins and the World Health Organization on relevant COVID-19 statistics for your area. It also has information sections on FDA-approved vaccines and the latest local or global COVID-19 news stories from trusted sources. This project was mostly built using Java in Android Studio.