

AMOD KALA

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EDUCATION

University of Waterloo

September 2018 - April 2023

Candidate for BA, Honours Economics, Co-op

- Computing Minor
- Coursework in Functional Programming, Data Structures, and Algorithms

SKILLS

Languages

Go, C, Typescript, HTML/CSS

Technologies

Linux, Git, Docker, gRPC, Protocol Buffers, React

EXPERIENCE

Software Developer Intern

September 2020 - December 2020

SecureKey Technologies

North York, ON

- Built the backend of a web app that facilitated the authentication and storage of digital, verifiable credentials for use by developer and sales teams
- Decreased build times by over 80%, enabling rapid development and deployment of the app by writing shell scripts, command line interfaces, and dockerfiles
- Expanded the interoperability of an open-source library by translating a W3 digital identity specification into code and submitting as a PR, achieving 100% test coverage
- Communicated with members of the open-source community to make improvements to open-source specifications

Software Developer Intern

January 2020 - April 2020

SecureKey Technologies

North York, ON

- Attracted new clients by creating proof of concept web apps leveraging proprietary technology for demonstrations, resulting in the acquisition of a \$800,000+ contract
- Heavily applied public key encryption in the design of these web apps using Golang libraries
- Contributed code to digital identity libraries and decentralized ledger-based root of trust identity frameworks
- Improved company culture by taking an active role on the social committee, planning and ensuring the success of company-wide events with more than 50 attendees

PROJECTS

Auction Simulator

January 2021

repo

- Creating a multi-agent auction system to further my understanding of economic auction theory
- Agents are Go implementations of gRPC services that bid according to different auction formats
- Future updates will revolve around scalability, concurrency support, and data persistence

Personal Website

December 2020

www.amodkala.com

- Currently migrating from plain HTML/CSS to React + Typescript