KRISTJAN ARI TOMASSON

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EDUCATION

Cornell Tech, New York, NY — May 2022
Master of Engineering in Computer Science | GPA: 4.0
Merit based Scholarship

Reykjavik University, Reykjavik, Iceland — June 2021
Bachelor of Science in Software Engineering | GPA: 4.0

Honors/Awards: President's list for every semester at Reykjavik University

TECHNICAL SKILLS

Coding Languages: Python, Java, JavaScript, C++, C#, C, React, F#, CSS, HTML, SQL
Operating Systems: MacOS, Linux, Windows

ACADEMIC PROJECTS

Cornell Tech, Product Studio, — Fall 2021
Project: Decentralize content moderation - *A Cornell Tech studio project to solve a company challenge from Twitter: How might we decentralize content moderation to enable trust between world leaders and constituents?*

- Collaborated with a team of 5 members of different backgrounds (CS, law, business, design) in a semester long project
- Conducted research and went through ideation and selection to develop a solution to the challenge
- Implemented a prototype of a polling system that involves users in appealed content moderation cases of verified content creators
- Collected behavioral data through experiments with the prototype which suggested users could provide valuable information in nuance moderation cases and introduced the findings to advisors at Twitter

Minitorch, (Python) — Fall 2021
A re-implementation of the PyTorch machine learning library. The final library is thoroughly tested and can run Torch code.

- Developed a software library for machine learning from scratch by implementing a tensor language with auto-differentiation
- Optimized core tensor functions with CPU programming in CUDA before training simple sentiment classification and image recognition models using the library and Torch code

Micetro by Men&Mice – Slack Integration, (Python) — Spring 2021
Final project at Reykjavik University. The project was sponsored by and developed in consultation with Men&Mice, a network management company in Iceland. The project was to connect their software, Micetro, to Slack to create a way to manage DDI (DNS, DHCP, IPAM) on large scale networks.

- Created a Slack application in Python that communicates with Micetro's REST API
  - The app offers common DDI operations through command line and GUI in Slack
- Designed the product's architecture and created thorough tests using dependency injection
- Operated the Scrum framework in the development process with a team of three developers
  - Set up continuous integration and deployment pipelines using Jenkins and Docker

EXPERIENCE

Dropp ehf., Programming Intern, Reykjavik — Summers 2020 and 2021
Dropp is a growing startup company in the last-mile delivery industry in Iceland. Spent two summers as an intern working directly under the company's CTO.

- Upgraded a webpage that customers used to track their own shipments
  - Added functionality for customers to manage their own shipments which decreased the load on the customer service significantly
- Implemented a middleware API in Java between Dropp's system and Junglework's application Tookan to create a tracking system for parcels out in delivery
  - Live tracking and text updates greatly improved customer satisfaction
- Developed a frontend for a mobile application in Flutter for Android parcel scanners

Reykjavik University, TA, Reykjavik — Spring 2021
Teaching assistant in a programming languages course which describes the evolution from the first programming languages to the more recent languages. The main characteristics of imperative and declarative programming languages are covered with emphasis on object-oriented and functional programming.

- Conducted TA sessions with 20-30 students
  - Solved programming exercises live with students and provided individual help on course assignments
- Graded homework and assignments