

Kol Crooks

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EXPERIENCE

IBM | SOFTWARE ENGINEER INTERN

Cambridge, MA | May 2022 – Aug 2022

Hashbot | LEAD DEVELOPER

Remote | Jan 2022 – Present

- Designed in java with a scalability centred design in order to overcome the limitations of discord's API.
- One of discord's largest moderation bot, serving 8+ million users.
- Planned and managed project goals for a team of people.

Duracell | SOFTWARE DEVELOPMENT INTERN

Bethel, CT | June 2021 – August 2021

- Designed and led project for an internal tooling website using React and TypeScript, that utilized NextJS to automatically generate web pages based on user content.
- Implemented authentication through Azure, and implemented authenticated server to server communication through custom generated tokens.
- Created video processing algorithms for measuring information about objects in high-speed video in Python with OpenCV and SciPy to quantify inaccuracies in the measurements.

Yale Biomedical Research Lab | SOFTWARE DEVELOPMENT INTERN

New Haven, CT | Summers of 2018 and 2019

- Involved in the creation of a PWA for MRI scan analysis that offered a better UI, and better functioning tools than an older system.
- Implemented a volume rendering modules using vtk.js, and internal data formats.
- Ported C based MRI scan smoothing algorithm to the web.
- Responsible for data visualization and analysis tools using d3.js, created data formats for saving data on these tools.

PROJECTS

Real Time ASL Transcription Neural Network 

MAR 2019

Real time American Sign Language transcription algorithm.

- It was a highschool research project, and won multiple awards at science fairs, with the highest being second place at the CT-Stem Fair in 2018.
- Built model with Tensorflow in python and deployed it with a C# backend.

AdvocAI 

JAN 2022

AI generated legal advice

- Full stack application that generates contextual AI-generated legal advice based on user input.
- Uses a custom trained GPT-3 model based on data scraped from Reddit.
- Built with React and Tailwind to provide an interactive and responsive user experience.

Stock Trader AI 

APR 2020

Predicted stock market and crypto conversion rates.

- Reinforcement learning algorithm made with Tensorflow and used an RNN based model.

EDUCATION

University of British Columbia

Vancouver, BC | Sep 2020 - Dec 2023

BSc. COMBINED MAJOR IN COMPUTER SCIENCE AND STATISTICS

SKILLS

Languages: Rust, Javascript/Typescript, Python, C#, Java, R, C++, C, Go

Databases: SQL, PostgreSQL, MongoDB

Web Technology: React, Vue, GraphQL, Nextjs, Express, Jest

Technology: Tensorflow, OpenCV, AWS, Azure, Docker, Git