Kol Crooks

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EXPERIENCE

IBM | Cloud Engineer Intern   Cambridge, MA | May 2022 – Aug 2022
- Used CI/CD tools such as Jenkins and Tekton to create a solution for synchronising docker images to a private image repository, eliminating a previously manual and time consuming task.
- Managed and deployed projects on a Kubernetes cluster to achieve high scalability and reliability.
- Lead interactions with a client and helped integrate the project into their existing infrastructure to improve the security and deployment speeds of their microservices.

Hashbot | Freelance Developer   Remote | Jan 2022 – Present
- Large scale service serving roughly 10 million users.
- Distributed application written to scale, with the microservices being written in Kotlin, Rust, and Typescript.
- Created a scaleable solution to concurrently check millions of images against a set of banned images.
- Worked with a client to develop a product within the budget constraints that they had.

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.

PROJECTS

Discrab ⬈   Nov 2021
Rust Discord Bot Framework
- OpenSource bot framework written to be extremely fast, easy to use, and highly customizable.
- Communicated with potential end users and planned out overall architecture based on use-cases to improve developer experience.
- Used custom process macros to make development easier for the users.

Real Time ASL Transcription Neural Network ⬈   Mar 2019
Real-time American Sign Language transcription algorithm
- 3D convolutional neural network made to classify actions in real time, trained on data that we collected and cleaned.
- 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.

EDUCATION

University of British Columbia   Vancouver, BC | Sep 2020 - Dec 2023
BSc. Combined Major in Computer Science and Statistics

SKILLS

Languages: Rust, Javascript/Typescript, Kotlin, Python, C#, Java, R, C++, C, Go
Web Technology: React, Vue, GraphQL, Nextjs, Express, Jest
Technology: Tensorflow, OpenCV, AWS, Azure, Docker, Kubernetes, Git, Jenkins, Tekton, Github Actions, SQL, PostgreSQL, MongoDB