Lucas Rahn

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Skills

Languages

Python, Solidity, Javascript/Typescript, Bash, ASM, Matlab

Technologies and Frameworks

React, React Native, Flask, Express JS, Hardhat, Foundry, TheGraph, IPFS, Ethers.js, OpenZeppelin, Chainlink, Docker, RabbitMQ, Nginx, Jenkins, Git, PostgreSQL, MongoDB, Firebase, PIC Microcontroller, JIRA

Education

BASc Electrical Engineering, *University of Ottawa* ☐   09/2017 – 04/2023 │ Ottawa, Canada
Specialization in Control Systems Engineering.

Professional Experience

Software Developer, *CNTautomation Inc.*   09/2021 – 12/2021 │ Ayr, Canada
- Developed internal company tools, to increase the quality of product ad's, and made it simpler for the owner to track orders and ship products.
- Developed with **Flask**, **ES6**, and used **Nginx** as a reverse proxy. Deployed on an **AWS Lightsail** instance using **Docker/Docker Compose**. Managed domains on **Route 53** and images on **S3** with **Cloudfront**.

QA Engineer, *NetExperience* ☐   01/2021 – 08/2021 │ Ottawa, Canada
- Created regression tests for the first WLAN software service compatible with Open WiFi.
- Developed tests to apply custom configurations to access points and connect numerous emulated WiFi clients that executed TCP/UDP traffic.
- Designed end-to-end **Pytest/Selenium** tests to verify the application of access point configurations through the front-end web application.
- Utilized **Docker** and **Jenkins** to deploy automation scripts to multiple nodes for test execution.

Projects

Arber ☐   09/2022 – present
White Paper ☐
- A DAO for facilitating trustless ERC20 donations on the Ethereum Blockchain.
- Integrates **Kleros** ☐ (decentralized dispute resolution) which holds fundraisers accountable to complete their mission statement at the expense that they lose their donations.
- Smart Contracts developed with **Solidity,** and frontend created with **React.** Uses **TheGraph** for complex queries, and **IPFS** for storing documents and frontend build. Uses **Hardhat** for integration tests, and **Foundry** for unit/fuzz tests.

EventQR ☐   11/2022 – 02/2023
- Developed a QR code scanning application for uOttaHack 2023 which tracked food consumption, and raffle tickets for **500 hackers**.
- Created CLI tool with **python** for initializing QR codes, and a **React Native** application which connected to a **Firestore Database**.

Apollo Rehabilitation Glove ☐   09/2022 – 12/2022
Demo ☐
- Developed rehabilitation glove for stroke patients with real-time hand position interface.
- Used **Arduino** and **RPi** to collect sensor data, compute hand position, and transmit over web socket's to the users frontend via **nodejs** runtime. Stored persistent data using **Mongoose** ODM, and **MongoDB.**

DigiMarkets ☐   01/2022 – 04/2022
Demo ☐
- NFT browser application developed with **NextJS**, **Flask, Moralis, Docker.**