

# Anam Hira

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## TECHNICAL SKILLS

**Devops:** AWS (Solutions Architect Certified), Linux, Nginx, LAMP, Docker, Google Analytics, Git, Google Cloud Platform, Netlify, CI/CD

**Languages:** Java, Python, HTML, C++, C, Javascript, PHP, CSS, SQL, R

**Frontend:** Vue JS, Material UI, Bootstrap, Materialize, Vuetify, SCSS, Angular, React

**Machine Learning:** Scipy, Pandas, Numpy, Scikit-Learn, Tensorflow, Matplotlib

## PROJECTS (VIEW MORE AT ANAMHIRA.CA)

### RECURSIVE BARBELL TRADING BOT

MAY 2020 - [CODE]

- Algorithmic trading strategy based on fractal risk taking. Inspired by the barbell strategy outlined by Nassim Taleb in his book series Incerto.
- Utilizes a multitude of **AWS services** including **AWS lambda**, **API gateway**, **SQS**, **SNS** to create a highly available and fault tolerant system with minimal operational overhead.
- Created **\$ 2535.32** in profit over a one month time span

### CRYPTO/STOCK PORTFOLIO MANAGEMENT SYSTEM

MARCH - 2020 [CODE]

- Made in **Java** and includes a GUI and live prices, utilizing **APIs** of exchanges.
- Utilizing **GSON** and **JSON** to attain persistence within the project.

### FITNESS LOG TRACKING APP

JUNE 2020 - [CODE]

- Fitness login training android app, to train the movements you do on a daily basis, and ensure progressive overload.
- Using **android studio** and **java** to create a comprehensive **CRUD app**.

### WEB BASED MATERIAL DESIGN SSH LOGIN

DEC 2017 - [CODE]

- A SSH login built in **PHP** allowing you to access the terminal of the VPS which the website is hosted on.
- Built utilizing google material design principles.

## EXPERIENCE

### COMMUNICATIONS RESEARCH CENTRE CANADA

OTTAWA, ONTARIO

#### Software Engineering Intern

July 2021 - Dec 2021

- Implemented cloud based architectures to decrease compute expenditures by **\$ 5324.32** utilizing spot fleets rather than on demand instances.
- Created a disaster recovery protocol, which allows for robustness within the cloud infrastructure through the utilization of **Python**, **AWS Lambda**, **Cloudwatch**
- Directed the revision of cloud infrastructure to allow for fault tolerant systems by shifting parts of the infrastructure to serverless services such as **AWS Lambda**, **AWS S3**.
- Changed the **AWS IAM** permission architecture within the organization to allow for more granular control of permissions, more in line with best practices pertaining to security of cloud infrastructure.
- Utilized Infrastructure as code and **AWS Codepipeline** for deploying the systems used.

### CRYPTOLEEDGE

REMOTE

#### Software Developer Intern

May 2017 - Aug 2018

- Utilized trading indicators and machine learning libraries to run sentiment analysis on a multitude of social media platforms.
- Used brokerage and exchange **APIS** to create automated trading systems.
- Engineered the infrastructure for a web dashboard using **Vue**, **Jest**, and **Vue Testing Library**
- Created **\$ 30 000.32** in profits for customers by fine tuning machine learning models in a more efficient manner.

### HIRA FARMS

VICTORIA, BC

#### Farmer/Helper

May 2014 - Aug 2019

- Part time helper at family farm, responsible for deliveries to local small businesses.
- Increased revenue by **300 percent** by providing translation of Punjabi to English when communicating with merchants

## EDUCATION

### UNIVERSITY OF BRITISH COLUMBIA (UBC)

Vancouver, BC

Bachelor of Science in Computer Science and Statistics, Deans Honour List

Sep 2019 - Apr 2023