Anweshi Anavadya

(+1) 416-835-1743 | anweshianavadya@gmail.com | Anwesh1.github.io | Anwesh1 | anweshianavadya

Summary of Qualifications

Languages: Python · C++ · C · Java · JavaScript · Solidity · Cadence · HTML · CSS

Technologies: UNIX · NumPy · FastAPI · Pydantic · FAISS · Flask · Pytest · MySQL · BASH · GIT · JIRA · React · RapidAPI · FileMaker · MongoDB

Experiences

Machine Learning Intern
Donnelly Centre for Cellular and Biomolecular Research · BaderLab

Toronto, Canada
January – April (2021)

- Developed a robust **command-line client** to interface with PubMed EUTILS for our Machine Learning data aggregation pipeline.
- Implemented a custom data indexing platform by leveraging the **FAISS library** for our Natural Language Processing system.
- Accomplished an efficient and accelerated program life-cycle by utilizing FastAPI and Pydantic.
- Designed a comprehensive testing framework and maintained code upkeep for our **semantic-search** platform using Pytest.

Software Tester
ADB Solutions

Toronto, Canada
May – August (2020)

- Performed code reviews for custom FileMaker schemas and automated testing of production code.
- Wrote unit tests for JavaScript components on the Fm BetterForms network.

Projects

pr!ce · ETHDenver
JavaScript · React · Solidity · web3.js · Flask · Python · HTML · CSS

March, 2021

- pr!ce is a web3.0 NFT marketplace for trading ERC-1155 shares in off-chain entities, powered by an in-house Automated Market Maker.
- Implemented Oracle-based smart contracts by leveraging the Chainlink ecosystem to provide an off-chain user experience.
- Developed a custom web-scraping NBA API to calculate player performance based on fantasy statistics.

Screen My Tweets · RUHacks
JavaScript · MongoDB · Node.js · Leaflet.js · Bootstrap · HTML

May, 2020

- A data visualization and Natural Language Processing (NLP) web app for sentiment analysis regarding COVID-19.
- Leveraged the Twitter API and NLP to identify location based sentiment towards the COVID-19 pandemic.
- Integrated the MapBox API with Google cloud geocoding API to render a 'North American Heat Map'.

MineBuskers · ETHWaterloo
Python · JavaScript · HTML · CSS

November, 2019

- A cryptocurrency-based web app that creates publicly accessible events across the world.
- Integrated Google Maps API into the project to reward users (using an in-app currency) based on their locations relative to events.
- Created a sleek UI that was scalable across any type of device flawlessly.

Contact Manager
C++

December, 2020

- A scalable contact manager developed for organizations to link users to their phone numbers.
- Implemented an optimized hash table using a custom chaining algorithm that allows for records to be managed, created and deleted.
- Created dual collision resolving scenarios involving the use of double hashing and linked list techniques.

Stream Cipher
C++

September, 2019

- A symmetric encryption/decryption algorithm based on a custom RC4 derivative to generate pseudorandom output streams.
- Achieved this using transmission-safe base85 encoded output for smooth binary transfer of raw data.

Education

University of Waterloo
Candidate for B.Asc in Computer Engineering

Waterloo, Canada
2019 - Present

- University of Waterloo President's Scholarship recipient.
- **Additional Courses:** CS50 Intro to Artificial Intelligence (Harvard), Special theory of Relativity (Stanford), Intro to Astronomy (U of Arizona)

Honors & Awards

2021	**Winner,** Won multiple cash prizes amounting to $4,000 at ETHDenver Hackathon (**'pr!ce'** project)	*Denver, USA*
2020	**Finalist,** Amongst top teams in RUHacks (**'Screen my Tweets'** project)	*Toronto, Canada*
2019	**Winner,** Won a $500 cash prize at ETHWaterloo Hackathon (**'MineBuskers'** project)	*Waterloo, Canada*