ISAAC SINGER

isaacsingerjobs@gmail.com

484-999-1566

Malvern, PA

SUMMARY

Software Developer with a strong academic background in artificial intelligence, full stack development, and data analysis. Solid problem-solving abilities and adaptability in various professional roles. Entrepreneurial in nature, has successfully initiated and completed projects. Versatile and promising candidate prepared to contribute effectively to a technology-based role.

SKILLS

Programming skills:
C++, Python, Java, TypeScript, Kotlin, PHP, JavaScript, HTML, CSS, Agile, Scrum, Svelte, SvelteKit
Tools:
AWS, Azure, GitHub, Mocha, Chai, Microsoft Suite, Eclipse, PyCharm

EMPLOYMENT HISTORY

Tildei - WhatsApp Marketing Software - New York, NY | Remote - Software Engineer   *December 2023 – present*
- Engineered a solution to full-text search and sort throughout the product suite, implemented across the frontend, backend, and database
- Developed support in the product for one of the three possible interactive message types in the WhatsApp API, a feature now used by every single Tildei client
- Increased usability and feature set of the editor component, an element that handles 87% of the customers actions

Rx.Health/Commure - Patient Messaging - New York, NY - Software Engineer   *April 2023 – November 2023*
- Restructured company's entire database and backend from MongoDB to Databricks to increase system's speed
- Authored a converter in TypeScript for MongoDB queries to be transformed into Databricks queries, reducing cost of adopting the new system
- Managed other developers and led a team across 3 time zones, used Scrum cycle
- Conducted customer calls to onboard new clients

Amazon AWS, Proton Jersey City, NJ - Software Development Engineering Intern   *May 2022 – August 2022*
- Gathered data on AWS Proton downtime and built an impact report tool
- Implemented an information processing tool using an API in Kotlin. Processed and stored 300 information logs a minute into a database
- Constructed a server to run the Grafana graphing API, wrote Lucene queries for the OpenSearch database, and graphed customer impact
- Designed the infrastructure to convert existent graphs from Cloud Watch into the Grafana API

AGI - Aerospace Software - Exton, PA - Software Engineering Intern   *May 2019 – August 2019*
- Translated older software from VBScript to JavaScript across 22 web pages for new release of ODTK software
- Overhauled the design of 45 software panels to modern and intuitive standards
- Addressed the design requirements from three separate parties and presented an agreed upon solution

EVOLVE IP - Telecommunications Provider - Wayne, PA - Software Engineering Intern   *May 2018 – August 2018*
- Authored a tool to update pricing model, saving $10,000 a month
- Applied the Google Maps API to visualize geographical sales volume

EDUCATION

New York University   *September 2018 - December 2022*
Tandon School of Engineering
B.S. in Computer Science
Relevant Coursework:
Artificial Intelligence, Computer Security, Linear Algebra, Design & Analysis of Algorithms, Data Analysis, Object Oriented Programming

INTERESTS AND HOBBIES

Interests
- AI, Full Stack Development, Automation Engineering

Hobbies
- Fishing, Anything to do with coffee

PROJECTS

Internet Based Coffee and Espresso Cafe - (JavaScript, PHP, HTML)
- Founded an online cafe that accepts orders, alerts barista of orders, and has an administrative back-end feature
- Sold 70 espresso drinks a month to individuals in my university dormitory through e-commerce website
- Ran social media account and managed Facebook Ads: produced 2-4 ads a month

AI Based Clothing Reselling Analysis - (Java, AWS)
- Launched analytics app for apparel resellers
- Incorporated K-Means and Neural Networks to garnish 35% profit per flip, beating industry standards
- Sold subscription to company's analytic software through custom built website

AI Poker Playing Bot - Neural Network Based Card Playing System (Java)
- Trained in a novel approach of using both an adversarial, and a LSTM algorithm to beat human poker players
- Won 23% more than the average human player in free online matches

Web 3 Blockchain Platform - (Java)
- Invented an architecture that could run WebApps written in any language on an integrated blockchain platform
- Developed platform in Java and ran it across multiple VMs to create a computer network
- Proved project ran at a 10X faster rate than competing systems, and it also had more features and compatibility
- Project involved self education on Sockets, TCP, Network Security, Data Encryption, and Blockchain Technology

RESEARCH

Deep Learning's Improvement on Spacial Detection - (Python, Cuda, PyTorch)
- Tested a deep learning model, a lightweight machine learning model, and a deterministic analytic models on a data set with LIDAR ground truths
- Implemented many models, which involved running Deep Neural Networks on NYU's Super Computer
- Found that Deep Neural Networks are very good at Spacial Detection and worth their architectural complexity

GITHUB

My GitHub:
github.com/iwillseeyouinabits