EVAAN YASER AHMED

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ML Engineer with 2 years of startup experience • Deployed production code at 4 companies to generate $200,000+ in value

EDUCATION

Grinnell College | Grinnell, IA — Aug 2019 – May 2023

- B.A in Computer Science, Theatre • GPA: 3.62/4.00 • Engaged in 3 work-study jobs & 5 leadership positions 35 hrs/week

TECHNICAL SKILLS

- Languages: 4 yrs – Python, Java, C • 2 yrs – JavaScript, CUDA, C++, Bash, R • 1 yr – MATLAB, SQL, MIPS (Assembly)
- Environments/Tools: 4 yrs – TensorFlow, Linux, Git, Jupyter, PyTorch, OpenCV, NumPy • 1 yr – Raspberry Pi, AWS, Snowflake
- Certifications: Deep Learning Specialization (Coursera)

SELECTED WORK EXPERIENCE

Machine Learning Engineer (LLM) — Nov 2023 – Present

Housality – ***Python, AWS, Huggingface, ML Pipeline*** — Remote – San Francisco, CA

- Led development of an LLM-powered chatbot to compare user-uploaded home insurance policies with 24 industry benchmarks to serve as the 1st profitable component of comprehensive property evaluation service
- Established an automated ML pipeline to generate 1k synthetic home insurance policies per 1 minute with 0 paid dependencies to economically supply the RAG framework with realistic data to boost LLM faithfulness by 13%
- Fine-tuned 7 LLMs by systematically adjusting 20+ metrics to assess the top 2 models for paraphrasing sentences
- Negotiated a 50% discount on the preferred MLOps platform's $100/month/user rate for 1st year

ML Intern (Computer Vision) — May 2022 – Aug 2022

Chipper Cash – ***Python, Snowflake, SQL, Git*** — Remote – San Francisco, CA

- Developed in-house fake ID detector for verifying 12,000 IDs/month (from 2 African countries) to reduce KYC expenses
- Eliminated 3rd party dependencies on the backend to yield significant cost reductions (exact figures confidential)
- Accomplished a 99.2% model success rate based on initial testing with a sample size of 50 ID photos

Computer Vision Engineer — Jun 2021 – Aug 2021

Breccia Breakers – ***Python, Raspberry Pi, Tensorflow*** — Portland, OR

- Trained 3-layer TensorFlow CNN for Raspberry Pi-controlled rock-sorter prototype to automate sorting of sunstone rocks
- Configured model to factor external hardware changes within 2 seconds, achieving recall (sensitivity) of 96%
- Decreased over-fitting by 23% by defining custom class weights and checkpoints while training model from unbalanced data

ML Teaching Assistant — Aug 2020 – May 2021

Grinnell College CS Department – ***C, GNU Bash, Linux*** — Grinnell, IA

- Graded students for *Robotics with C* & tutored students for college's first *Intro to AI* course (8 hours/week)
- Reduced testing & debugging time by 60% by demonstrating Colab notebook *shell* commands

SELECTED PROJECTS

Freelance – Passport OCR App | ***Python, Front-End, JSON*** – Contract Project — Dec 2023 – Jan 2024

- Built Streamlit web-app to extract passport-holder details from uploaded photos within 15 sec (client requirement – 20 sec) by leveraging free OCR API by ocr.space
- Increased accuracy to 98% by implementing robust string processing on OCR'ed text

Peer-to-Peer Chat | ***C, Linux, Multithreading, Networking*** – Group of 2 — Nov 2022

- Engineered chat network without 1 central server by enabling users to function as both clients & independent servers
- Tested security by sending invalid messages from 40 virtual machines attempting to break POSIX socket links

GPU Sudoku Solver | ***CUDA, Concurrency, Optimization*** – Individual Project — Nov 2022

- Solved 1,750,000 sudoku boards/second by creating a multithreaded program that applied constraint propagation via GPU

LEADERSHIP & AWARDS

- Start-Up Incubator: 2nd runner-up from 50 contestants in a 3-day innovation and pitch competition ($600 prize) — Sep 2022
- Founder/President: Headed Culture & Cuisine Org to build multicultural experiences over food; secured $18k funding — Aug 22 – May 23
- The Grinnell Grant: $210,000 awarded to 18 of 1850 students for outstanding academics & social leadership — Aug 19 – May 23