Harlan Jazz Ferguson

FULLSTACK SOFTWARE ENGINEER

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Skills

- Programming Languages: Python, Java, C#, PHP.
- Web Development: HTML, CSS, JavaScript, TypeScript, Node.js.
- Frameworks: React.js, Express.js, Django, .NET Core, React Native, Swing.
- Database Management: MongoDB, Oracle SQL Developer, Postgres, MySQL, SQLite3.
- DevOps: Docker, Postman, Jenkins, Linux environments, CLI commands and scripting, SSH, WSL, Azure.
- Python Libraries: Sci-kit, Pandas, Numpy, Tensorflow, Matplotlib, Tkinter, Smtplib, Flask, Selenium.
- Other: Scrum Fundamentals Certified 2023, Git/GitHub, Microsoft Office, Raspberry Pi / Arduino

Projects

- Phishing Email Detection using AI: Created a chrome browser extension that reads emails, detects suspicious emails
 with 90% accuracy using a random forest classifier, and if flagged as phishing, generates a warning in the email and
 disables all external links. Techstack: Python (Flask/Sci-kit), JavaScript.
- Reddit Title Predictor: Generated a dataset from scratch using Reddit's API and then trained a Bayes model to achieve an 80% F1 score. Built a React frontend for user input. Techstack: Python (Django/Sci-kit/Pandas), Typescript, React.js
- Peer-to-Peer bidding website: Programmed alongside teammates to produce a functional web application that allows for user signup/sign in, 2FA, admin user accounts, item creation, and a bidding mechanism. We deployed our solution to Azure. Techstack: C#, .NET, Azure.
- Minimax Algorithm implementation: Worked on a team to develop a desktop application that uses minimax in a game of tic-tac-toe with a win rate of 100%. **Techstack:** Java (Swing)

Achievements

- Top 18% in IEEEXtreme 2023 international programming competition with over 20,000 participants.
- Top 27% in IEEEXtreme 2022 international programming competition with over 14,500 participants.
- Competed in Bell GeekFest 2023 / 2022 and ActInSpace International Hackathon 2022.

Education

George Brown College, Advanced Diploma: Computer Programming and Analysis

2021-2024

- GPA: 3.30 | Dean's Honour Roll
- Co-founder and VP of GBC Computer Science Club
- A- in Data Structures and Algorithms

George Brown College, Advanced Diploma: Business Administration – Retail

2017-2020

• GPA: 3.32 | Dean's Honour Roll

Work Experience

Arcadia Housing Coop | Maintenance Worker and IT Consultant

2021 - Present

Urbane Cyclist | Co-Owner and Mechanic

2012 - 2021