Harlan Jazz Ferguson

FULLSTACK SOFTWARE ENGINEER

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Skills

- Programming Languages: Python, Java, C#, C, PHP.
- Web Development: HTML, CSS, JavaScript, TypeScript, Node.js.
- Frameworks: Spring Boot, 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, Google Cloud.
- Other: Software design, Scrum Fundamentals Certified 2023, Git/GitHub, Microsoft Office, Raspberry Pi / Arduino.

Projects

- Phishing Email Detection using Al: 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.
- Employee Management Webapp: Developed a website for managers to CRUD employees and reactively track different employee statistics at an easy glance. **Techstack:** MERN (Mongo, Express.js, React.js, Node.js).
- Real-World Scavenger Hunt Android App: Spearheaded the design and development of an app using Google Maps API, guiding team members in collecting and integrating real-world locations. Successfully implemented tracking features, leading to a 100% grade for the final project. **Techstack:** Java.
- · Portfolio of all my projects can be found on my website.

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: 3.48 | 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

George Brown College | Student Researcher

2024 - Present

Selected by faculty to develop software for the college.

Arcadia Housing Coop | Maintenance Worker and IT Consultant

2021 - Present

Urbane Cyclist | Mechanic

2012 - 2021