Harlan Jazz Ferguson

FULLSTACK SOFTWARE ENGINEER

Toronto, ON | 647-703-9139 | harlanjazz@gmail.com | https://www.harlanferguson.com/

Skills

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

Projects

- **Reddit Title Predictor:** Generated large dataset using Reddit's API and then trained a Bayes model to achieve an 80% F1 score. **Techstack:** Python (Django/Sci-kit/Pandas), Typescript, React.js
- **Workorder Management System:** Developed a desktop application for organizing workorders using CRUD operations for my role as a Maintenance Worker. **Techstack:** Python (Tkinter/Sqlite3)
- **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)
- **Python Bots:** Successfully deployed bots as docker containers running on a Rpi3. One bot automatically messages my friends on their birthday on my behalf, the other is a discord bot that welcomes new club members and announces meetings. **Techstack:** Python, Docker

See full Project Portfolio at the website written above.

Work Experience

**Arcadia Housing Coop	Maintenance Worker and IT Consultant**	**2021 - Present**
**Urbane Cyclist	Co-Owner**	**2012-2021**

Education

George Brown College, Advanced Diploma: Computer Programming and Analysis	**2021 - 2024**

GPA: 3.30 | Dean's List

- Co-founder and VP of GBC Computer Science Club
- A- in Data Structures and Algorithms

George Brown College, Advanced Diploma: Business Administration	**2017 - 2020**

GPA: 3.32

Achievements

- Top 27% globally and 15th place in Canada, IEEEXtreme 2022 (Competitive Programming Competition).
- Act in Space International Hackathon 2022, Semi-finalist runner-up for Canada.
- Runner-up, Bell Geekfest Hackathon 2022.