

Harlan Jazz Ferguson

FULL STACK SOFTWARE ENGINEER

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Skills

- **Programming Languages:** Python, Java, C#, C, PHP.
- **Web Development:** HTML5, CSS, JavaScript, jquery, bootstrap, TypeScript, Node.js, RESTful API development.
- **Frameworks:** Spring Boot, React.js, Express.js, Django, .NET Core, React Native, Swing.
- **Database Management:** MongoDB, Oracle SQL Developer, Postgresql, MySQL, SQLite3, nosql.
- **DevOps:** Docker, Postman, Jenkins, Linux environments, CLI, CI/CD, SSH, WSL, Azure, AWS, Google Cloud.
- **Other:** Software design, agile development methodologies, Scrum Fundamentals Certified, Git/GitHub, Raspberry Pi.

Projects

- **Phishing Email Detection using AI:** Led the creation of an innovative Chrome extension for detecting phishing emails with 90% accuracy. Demonstrated technical skill and flexibility in a dynamic hackathon setting, applying critical problem-solving to develop effective security tools. **Techstack:** Python (Flask/Sci-kit), JavaScript.
- **Reddit Title Predictor:** Created a dataset using back-end Reddit APIs and trained a Bayes model to achieve an 80% F1 score. Built a frontend for elevated user experience. **Techstack:** Python (Django/Sci-kit/Pandas), Typescript, React.js.
- **Peer-to-Peer Bidding Website:** As a full stack developer, I worked 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. This gave great exposure to debugging in a live environment. **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 IEEEExtreme 2023 international programming competition with over 20,000 participants.
- Top 27% in IEEEExtreme 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 09/2021-04/2024

- 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 09/2017-04/2020

- GPA: 3.32 | Dean's Honour Roll.

Work Experience

George Brown College, Research and Development Dept. | Software Engineer 01/2024 – 02/2024

- Selected by faculty to develop software for an industry partner.

Arcadia Housing Coop | Maintenance Worker and IT Consultant 06/2021 - Present

Urbane Cyclist | Mechanic 03/2012 – 08/2021