

Harlan Jazz Ferguson

Location: Toronto, Canada

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Objective: Seeking a full-stack software engineering internship to utilize my strong programming skills, problem-solving capabilities, and a comprehensive understanding of data structures and algorithms.

Highlights of Qualifications:

- Strong skills in object-oriented programming, design, and implementation.
- Proficient in Python, Java, C#, .NET Core, PHP, with hands-on experience in deploying to Azure.
- Comfortable with front-end technologies: JavaScript, React, TypeScript.
- Thorough understanding of data structures (hashtables, linked lists, binary search trees, graphs) and algorithms (binary search, merge sort, selection sort, insertion sort, and binary tree traversal).
- Scrum Fundamentals certification; Proficient in Git and GitHub.
- Strong problem-solving skills demonstrated in IEEEExtreme International Competitive Programming.
- Excellent communication skills and team collaboration experience demonstrated in various development projects.

Technical Skills:

- Programming: Python, Java, C#, .NET Core, PHP.
- Web Development: JavaScript, React, TypeScript, HTML, CSS.
- Database Management: Oracle SQL Developer, MySQL, MongoDB.
- DevOps: Linux environments, CLI commands, Docker, Azure.
- Others: Microsoft Office, Raspberry Pi / Arduino development.

Projects:

- **.NET Core Auction Site (Team Project):** Worked on a team to develop and deploy a .NET Core site to Azure. Implemented functionalities including account creation, email verification, log-in system, user role management, item creation, and a bidding system.
- **Tic Tac Toe Game:** Created a tic tac toe game in Java using Spring for the front-end. Implemented the min-max algorithm for the game bot.
- **harlanferguson.com:** Developed a personal portfolio website showcasing completed projects.

Work Experience:

Software Engineer at Communicadia, May 2022 - Present

- Part of a team developing a web application for a residential building, focusing on tenant-staff communications, documentation distribution, and public-facing information.
- Developed backend Python functionality to convert PDF documents to plaintext.
- Currently adding content with TypeScript, improving front-end skills.
- Participating in bi-weekly sprints.

Maintenance Worker at Arcadia Housing Cooperative, June 2021 - Present

- Efficiently managed various repairs including electrical, plumbing, appliance, drywall, painting, and aging in place measures.
- Courteous and professional communication with tenants.
- Filled in for the maintenance supervisor role when necessary.

Part-owner at Urbane Cyclist Worker Cooperative, Mar 2012 – Dec 2021

- Reviewed financial statements, identified areas for improvement, and increased profit margin.
- Recorded \$334,246.94 in net sales for 2020 in a seasonal-sales environment while a full-time student.
- Acted as HR representative and head of Health and Safety, providing quality control and constructive feedback to employees.
- Oversaw management interactions with employees regarding hiring, firing, training, and conflict resolution as human resources director.
- Updated company policies and conducted investigative reporting.

Education:

- **School:** George Brown College | **Degree:** Advanced Diploma, Computer Programming and Analysis

Dates: 2021 - 2024

- **School:** George Brown College | **Degree:** Advanced Diploma, Business Administration - Retail

Dates: 2017 - 2020

- **School:** University of Toronto Mississauga | **Degree:** Criminology

Dates: 2014 - 2015

- **School:** Northern Secondary School, Toronto | **Degree:** Ontario Scholar Graduate

Dates: Graduated 2014

Awards and Certifications:

- Scrum Fundamentals Certified, 2023.
- Top 27% globally and 15th place in Canada, IEEEExtreme 2022 (Competitive Programming Competition).
- Semi-finalist runner-up for Canada, Act in Space International Hackathon 2022.
- Runner-up, Bell Geekfest 2022 (Hackathon).
- Completed Automate the Boring Stuff with Python Programming, 2020.