

Ethan Major

SOFTWARE DEVELOPER

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TECHNICAL SKILLS

Languages: C/C++, ARM Assembly, C#, Java, JavaScript/HTML/CSS, Python, SQL, Makefile

Frameworks and Libraries: jQuery, .NET, ASP.NET, React

Tools: Git/Github, Linux, Docker, Unity, MySQL, Android Studio, VirtualBox/VMWare, NUnit, GDB, Valgrind

PROJECTS

Onyx - Experimental Terminal Emulator - (C, Linux Development, Makefile, Data Structures)

github.com/EthanMajor9/Onyx

- Developing a terminal emulator from scratch using the C programming language and related tools, including the Makefile build system.
- Gaining experience in the Linux environment and deepening my understanding of shells and operating systems concepts.
- Designing and implementing complex data structures such as hash tables and linked lists to improve terminal emulator performance and reinforce my knowledge of advanced data structures.

C# Web Server - (C#, Logging Techniques, HTTP, TCP, Web Sockets, Multithreading/Concurrency)

github.com/EthanMajor9/Web-Server

- Developed a fully function web server from scratch using C# and the related tools
- Implemented robust concurrency and multi-threading mechanisms to ensure the web server can handle multiple client requests simultaneously without blocking or performance degradation.
- Implemented comprehensive error handling and exception management strategies to provide informative error messages to clients while maintaining the stability and security of the server.
- Incorporated comprehensive logging techniques to track server activity, errors, and performance metrics, enabling easy monitoring and debugging of the web server in production environments.

EDUCATION

Waterloo, Ontario

Conestoga College

September 2021 - April 2024

- Advanced Diploma in Software Engineering
 - **Awards and Extracurriculars:**
 - On track to graduate with Distinction
 - Recipient of multiple bursaries and awards
 - Nominated for the James W. Church Award for academic achievement
 - VARLab Introduction to Unity Game Development certificate
- Program GPA: **3.93 / 4.00**

EXPERIENCE

Freshco

December 2022 - Present

Grocery Associate and Cashier

- Taking inventory and putting away overstock
- Stocking shelves, facing shelves, and cleaning aisles.

Canada Computers & Electronics

February 2020 – November 2020

Computer Service Technician

- Diagnosed Computer hardware and software issues for Customer Computers and Networks
- Recommended and executed repairs approved by the Customer
- Ordered repair parts and performed software and hardware installations and fixes on their computers
- Built new Computer systems from scratch with store-bought components for Customers
- Assisted Customers in locating items and answering any questions or concerns about products and what might fit their needs best.