

ALEX GORMAN

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HEADER

Computer Science Graduate with hands-on experience building full stack applications and data analysis tools. Skilled in software development methodologies, test-driven development, defensive programming, and object-oriented programming. Eager to contribute to collaborative development teams and continue growing as a software engineer.

SKILLS

Technical

- Languages: Python, Java, JavaScript, C, SQL, HTML, CSS
- Frameworks: React.js, Node.js, Express
- Databases: MySQL
- Tools & Platforms: Git, Linux, Docker, GitHub Pages
- Software Development: MVC Architecture, Agile & Waterfall methodologies, pair programming, code reviews
- Core CS Knowledge: Algorithms, data structures, object-oriented programming

WORK EXPERIENCE

Markham Medical Clinic – Front Desk Staff

2017 – Present

- Managed patient intake, scheduled appointments, and communicated with patients to support daily clinic operations
- Organized and maintained patient records, transitioning from paper charts to an electronic system, scanned patients charts into EMR System, improved office efficiency by 20%

PROJECT

Electronic Medical Record System

- <https://github.com/Alex-Gorman/Electronic-Medical-Record-System>
- Full-stack web application simulating a real-world EMR system
- Developed patient management features, including creating, editing, and searching patient demographic records
- Implemented appointment scheduling with duration selection, non-overlapping time slots, and real-time status tracking
- Tech stack: React.js (frontend), Node.js/Express (backend), MySQL (database), Docker

Soccer Match Analytics

- <https://github.com/Alex-Gorman/Soccer-Match-Analytics>
- Data analysis and visualization tool for soccer match outcomes and performance metrics
- Processed match datasets with Python and pandas to generate insights into team performance and scoring opportunities
- Created interactive charts highlighting trends in results, goal patterns, and comparative statistics
- Tech stack: Python, pandas, GitHub Pages

Checkers Networking (Java)

- <https://github.com/Alex-Gorman/Checkers-Networking-Java>
- Developed a multiplayer checkers game with client–server networking architecture
- Enabled real-time gameplay between two users over a network connection
- Applied object-oriented programming principles to manage game logic and state synchronization
- Tech stack: Java, TCP sockets, OOP

Stock Price Dashboard

- <https://github.com/Alex-Gorman/Stock-Price-Dashboard>
- Developed an interactive dashboard for equity analysis
- Integrated Yahoo Finance API (yfinance) for live and historical stock data
- Implemented features including moving averages, indexed performance, rolling volatility, and drawdowns
- Tech stack: Python, Streamlit, Plotly, pandas, yfinance

EDUCATION

University of Saskatchewan

- BSc. Computer Science
- Minor in Biomedical Sciences
- GPA: 3.9

EXTRACURRICULAR

- University of Saskatchewan Cybersecurity Team (UofS – CST)
- Intramural Futsal, Soccer
- Game Jam Winter 2023 – helped design and implement space theme game (<https://brains476.itch.io/interstellar-endocytosis>)
- Eco Hack 2023
- Programming Contest 2023

REFERENCES

Mehdi Khalaj

TA

Department of Computer Science, U of S

Saskatoon, Saskatchewan

306-371-1311

Nancy West

Officer Coordinator

Markham Medical Clinic

Markham, Ontario

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