

# ERFAN JAFAR

St. John's, NL, Canada

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## PROFESSIONAL SUMMARY

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Innovative software engineer with experience in full-stack development, AI integration, and product-focused engineering. Skilled in modern web technologies such as React, TypeScript, Node.js, and Python. Adept at collaborating with cross-functional teams to deliver impactful user-facing features. Passionate about solving complex problems through elegant, scalable solutions and leveraging AI tools to enhance productivity.

## EDUCATION

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### Bachelor of Science in Computer Science, Minor in Business Administration

09/2020 - 12/2024

Memorial University of Newfoundland, St. John's, NL

St. John's, NL

## EXPERIENCE

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### Junior Programmer Analyst Intern

01/2023 - 09/2023

Innovmarine

Levi, QC

- Collaborated on a cross-functional team to create a SAAS web application using JavaScript, C#, Razor, Bootstrap, and HTML.
- Conducted code reviews, thorough testing, ensuring adherence to best practices, functionality, quality, and user satisfaction.
- Managed SQL databases, optimizing schema design and performance, identified and resolved software bugs.
- Contributed to comprehensive documentation for ETL softwares, web applications, and database processes.
- Developed VBA and PowerQuery ETL transformations, enhancing data quality.
- Used PowerBI for data visualization and building relations between tables from SQL servers.

### In-store and In-home Computer Technician

10/2021 - Present

GeekSquad

St. John's, NL

- Conducted in-depth troubleshooting using diagnostic tools, ensuring accurate problem identification and swift solutions.
- Interact effectively with customers, gathering detailed issue information and providing clear, non-technical explanations of solutions.

### Junior IT Specialist

03/2021 - 08/2021

Beef and Butter

Jeddah, KSA

- Seamlessly integrated restaurant profiles with delivery apps, ensuring accurate menu information and pricing.
- Revamped website using HTML, CSS, and JavaScript, elevating online presence and user experience.
- Collaborated with stakeholders for effective integration and documented technical changes.

## PROJECTS

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### StoxPredict | Python, Machine Learning, Data Analysis, Web Scraping

Utilized web scraping techniques to gather financial data from Yahoo Finance, implemented time series data preprocessing, and developed a predictive model using LSTM neural networks in Python. Applied statistical metrics such as RMSE and MAPE to assess model performance. This project showcased proficiency in data manipulation, machine learning, and quantitative analysis

### Bunny Rambo | Python, Pygame

Developed a 2D shooting game using Python and the Pygame library. Implemented player movement, shooting mechanics, enemy AI, collision detection, and health management systems. Utilized image and sound assets to enhance the gaming experience. Demonstrated proficiency in Python programming, game development concepts, and problem-solving skills.

### Mind the Gap | Java, Java Swing, GUI Design, Event Handling, OOP.

Features dynamic grid layout using Java Swing components, random selection of starting player, player turn indication, and detection of neighboring square selections to determine the game outcome.

### KingDomino | Java OOP, GUI design, event handling, and teamwork

2 or 4 player Java-based board game application. The application utilized Swing for the graphical user interface, providing an interactive gameplay experience. I played a role in designing and implementing the GUI layout, managing player interactions, calculating scores based on the game's mechanics, and documentation.

## TECHNICAL SKILLS

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**Languages:** JavaScript (React, Node.js, TypeScript), Python, C#, C++, Java, C, C++, Node.js, React, SQL, PowerQuery

**AI and Data:** NumPy, Pandas, AI-driven applications, PowerBI

**Database Management:** MySQL, mongoDB, PostgreSQL, PowerBI, Tableau

**Tools:** Git, GitHub, GitLab, Linux, PowerBI, Unreal Engine