

krystian.r@hotmail.com | 519-729-5886 | Toronto, ON, Canada | https://krystianrusin.com

Education _____

Ontario Tech University

Oshawa, Ontario

BACHELOR OF ENGINEERING IN SOFTWARE ENGINEERING AND MANAGEMENT

Sept 2018 - June 2023

Skills

Languages: Python, Java, C#, SQL, HTML, CSS, JavaScript, TypeScript

Frameworks: React, Express, TailwindCSS, Flask, Django

Technologies: Git, Linux, MongoDB, Firebase, PostgreSQL, AWS, Jira, Confluence, Docker, Power BI

Work Experience _____

Healthy Gamer Remote, Contract

SOFTWARE DEVELOPER

May 2024 – Present

- Responsible for the ongoing development and administration of a Discord bot serving 23,000+ users, built on TypeScript, NodeJS and PostgreSQL with Prisma to streamline data management.
- · Collaborated with stakeholders to clarify requirements and ensure timely delivery of high-quality software solutions.
- Optimized application startup time, resulting in a 35% faster boot time and significantly reducing database connection overload failures.
- Optimized login and sign-up processes for a web application built with TypeScript, NodeJS, and PostgreSQL by integrating Google OAuth, improving user authentication speed and security.
- Refactored and optimized REST API endpoints, resulting in faster server response times and improved application performance.

ObjectNova IncRemote, Contract

FULL STACK ENGINEER

November 2023 – June 2024

- Adapted quickly to changing priorities and deadlines at a startup, leveraging Jira and Confluence to streamline project management and documentation.
- Spearheaded the redesign of the company's landing page, building a robust full-stack webpage using ReactJS, NodeJS, and Express, resulting in a 20% increase in organic traffic.
- Followed agile methodologies to lead the development of a new web application, leveraging ReactJS and ExpressJS to create a user-friendly and efficient platform for managing client data and transactions.
- Developed ETL pipeline to automate data extraction from an API, data transformation, and loading processes using Python and PostgreSQL.

Projects _____

Reinforcement Learning Agent for "Slay the Spire"

Python, PyTorch, Power BI, PostgreSQL

y-The-Spire-RL

- Developed a reinforcement learning model using Maskable Proximal Policy Optimization (PPO) to play
 the game "Slay the Spire", utilizing custom environments and observation spaces to handle complex,
 multi-dimensional game states.
- Designed a custom rollout buffer to efficiently manage experience replay and implemented Generalized Advantage Estimation (GAE), enhancing model performance and training stability.
- Implemented a dynamic reward system and an invalid action mask to improve the agent's strategic decision-making, resulting in faster convergence and improved gameplay performance.
- Developed a PostgreSQL-based database to track game statistics, agent decisions, and performance metrics for optimizing the reinforcement learning model.

Instagram Recreation

React, Express, MongoDB, Firebase

https://github.com/KrystianRusin/Sla

- Utilized ReactJS to build a responsive and faithful replica of the Instagram user interface.
- Engineered a RESTful API with ExpressJS for handling core functionalities such as user authentication, post creation, and data retrieval.
- Leveraged MongoDB for database management and Firebase for real-time data updates, ensuring fast and reliable performance.
- Implemented a real-time messaging system using Firestore for instant communication between users.

https://github.com/KrystianRusin/insta qram-clone