

Krystian Rusin

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Education

Ontario Tech University

BACHELOR OF ENGINEERING IN SOFTWARE ENGINEERING AND MANAGEMENT

Oshawa, Ontario

Sept 2018 – May 2023

Skills

Languages: Python, Java, C#, SQL, HTML, CSS, Javascript, TypeScript, PHP

Frameworks: React, Express, TailwindCSS, Flask, Django

Technologies: Git, Linux, MongoDB, Firebase, AWS, Jira, Confluence

Projects

Instagram Recreation

React, Express, MongoDB

- Developed a full-stack recreation of the popular social media platform Instagram.
- Utilized ReactJS to build a faithful replica of the Instagram user interface.
- Engineered a RESTful API with ExpressJS for replicating core functionalities like user authentication, post creation, and data retrieval.
- Leveraged MongoDB and Firebase for data storage and retrieval, ensuring fast and reliable performance.
- Implemented a real-time messaging system using Firestore for instant communication between users.

<https://www.krystianigclone.com>

ObjectNova Landing page

React, Express

- Designed a user-friendly website prioritizing smooth user interaction and engagement through a modern and intuitive user interface.
- Integrated a seamless and secure mailing system within the landing page to facilitate direct communication with the company. This led to a 25% reduction in email processing.
- Optimized the website for search engine visibility, resulting in a 30% increase in organic traffic.

<https://objectnova.ca/>

Suspicious Activities Detection AI

Python, OpenCV

- Created an advanced real-time system utilizing machine learning to detect suspicious and aggressive behavior.
- Assembled annotated datasets used for training, resulting in high prediction accuracy from the model.
- Trained YOLOv8 models to identify weapons and added GPU optimization which increased prediction speed by 125%.
- Trained a Random Forest model to analyze patterns in posture to classify aggression.
- Integrated the system with OpenCV for Python for efficient image processing.
- Features real-time alerts and notifications for security personnel, proving the YOLOv8 model is suitable for real-time applications.

<https://github.com/kavanc/CAPSTONE>

2022-2023

Work Experience

ObjectNova Inc

Remote, CA

FULL STACK ENGINEER

November 2023 – Present

- Adapted quickly to changing priorities and deadlines at a startup, leveraging Jira and Confluence to streamline project management and documentation which resulted in a 50% increase in team productivity.
- Spearheaded the redesigning 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.
- Automated routine database operations by developing utility scripts in NodeJS and PHP, implementing scheduled Cron jobs for increased efficiency, saving an estimated 4 hours of manual work per week.
- Built a REST API using ExpressJS to streamline company mailing operations, leading to a 25% reduction in email processing.
- Currently following agile methodologies to lead the development of a new web application for the company, leveraging ReactJS and ExpressJS to create a user-friendly and efficient platform for managing client data and transactions.
- Developing ETL pipeline to automate data extraction from an API, transformation, and loading processes using Python, reducing data processing time by 30%.