EWAN SAMUEL ROSS

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Experience

Fastview360   Shropshire, England
Software Developer   Oct. 2022 - Present

FV360 - Business Portal
- Designed and developed a comprehensive business portal using Remix for the client application and a .NET GraphQL server for the back-end; supporting sales order management, installation tracking and fulfilment processes across a range of operations
- Integrated key third-party APIs including Pipedrive and Xero to streamline customer management and invoicing workflows
- Delivered new features and functionality following Agile methodologies, prioritising user experience

Machine Learning Solutions
- Trained, deployed and productionised machine learning models using YOLOv10 to detect personal protective equipment achieving 90% precision across a range of environments
- Effectively deployed models to the Edge with Nvidia Jetson hardware, managing multiple video streams concurrently for real-time analysis and alerting via AWS IoT
- Engineered python scripts using Keras to automatically classify clean and dirty camera lenses
- Researched and trained Knife Detection models with SAHI inference for improved performance
- Utilised industry standard hyperspectral imagery to sort plastic from cheese to reduce fines

Projects

SuperEasyNotes.com (React/Node)
- Engineered a responsive, cloud-based note taking platform designed for simplicity and accessibility
- Integrated features including TipTap text editor, Google Analytics for user insights and AWS CloudFront for reliable content delivery
- Enhanced the user experience with LLM chat functionality to interact directly to your notes

Block Smasher Mayhem (C#/Unity)
- Developed and published a mobile arcade game featuring engaging gameplay and vibrant graphics
- Integrated Firebase for backend services, Unity Ads for monetisation and XCode for deployment Resulting in 2K+ downloads, 15.1K games played and a 5-star rating on the AppStore
- Applied machine learning strategies in multi-linear regression to optimise game performance

SimpleText.co.uk (PHP)
- Developed a scalable text messaging platform for businesses to manage marketing campaigns
- Facilitated 38K+ messages across 138 companies and 64 organised campaigns
- Proven track record maintaining an existing code base over 3+ years

Skills

TypeScript, React, TailwindCSS, SQL, C#, Python, PHP, Docker, GraphQL, Postgres, Git, CI/CD, AWS

Education

University of Nottingham   Nottingham, England
Computer Science with Artificial Intelligence BSc   Sep. 2019 – Sep. 2022
- Coursework: shift scheduling optimisation – MHR, ocean waste cleaning using intelligent agents, studied ML techniques including SVMs, decision trees and ANNs
- First-Class Honours