Ryley Keegan

Github | Portfolio | ryleykeegan47@gmail.com

Experience

Software Engineer   October 2022 - Present

Elev8 Studio - Remote in Ontario

- Developed and implemented an hierarchical clustering algorithm to consolidate analogous company information across 30+ sources into a centralized corporate intelligence database. Significantly improving data accuracy and completeness, as well as accelerating data retrieval processes by 864%. Designed & implemented a comprehensive API and UI/Dashboard for analyzing, retrieving & updating corporate information. This feature was subsequently integrated into the premium features offered by our B2B SaaS platform. Collaborated closely with cross-functional teams to complete this project
- Established the integration of AI models in our B2B SaaS application, supervised the development and ongoing administration of the models & systems. Developed multi-class & binary text classification models utilizing Keras & Tensorflow, deployed with a containerized application to enable seamless data classification, built with FastAPI & Docker. This became the cornerstone of our premium subscription and increased sales 23% year over year
- Conducted comprehensive security audits and vulnerability assessments to identify and remediate potential threats within our SaaS architecture. Applied penetration testing methodologies to assess the integrity of our service offerings
- Engineered an automated data acquisition pipeline with over 2000 Node.js crawlers, featuring dynamic scheduling and an extensive monitoring system. Enhanced crawler efficiency by 57% and optimized read operations on this data by over 40%
- Led the development and integration of our CI/CD pipeline to automate workflows. Leveraging rsync, Bitbucket pipelines, and Bash. Achieving a 25% improvement in build & deployment times compared to the previous FTP based system
- Developed an analytics engine for our SaaS application using React, Python & MySQL. Leveraged insights to boost user retention by 16% & refining the test suite based on user behavior analysis. It was integrated as a feature in our Saas app
- Built full-stack applications for top-tier clients like Nissan & Audi, employing technologies such as React, Typescript, Python, Nextjs, and FastAPI. Established a unified architecture standard for projects, resulting in a 25% decrease in development time
- Trained and supervised new developers and provided technical support to clients and coworkers

Software Engineer   June 2020 - October 2022

Various Companies - Remax & KeyCanna - Hybrid Remote in Ontario

- Integrated active property data into a dynamic server side rendered web application, with security & UI/UX in mind
- Utilized React, Next.js, & MySQL to produce a web application that displays active listings, using user behavior analysis to build an algorithm for predicting featured properties based on multiple observations
- Created a secure online portal with authentication for B2B clients to schedule appointments with Google's Calendar API, send reminder Email/SMS notifications with Twilio, & set up a direct payment processing system with Stripe APIs
- Developed a HIPAA compliant Medical Records (EMR) application that syncs patient details between multiple Practitioners, allowing them to perform CRUD operations on the patient information & send appointment reminder notifications
- Led a team of 5 employees using Agile development practices and established critical leadership, communication and software engineering skills. Implemented new features based upon the feedback of our clients & medical staff

Education

Computer Science - (GPA: 4.0)

University of London, Goldsmiths
Courses: Data Structures & Algorithms, Application Development, Computer Security, Machine Learning & Neural Networks

Skills

Software: React JS, Typescript, Python, PHP, MySQL, FastAPI, Nextjs, Linux, PyTorch, Tensorflow, AWS, Docker, Javascript, Tailwind CSS, Git & version control, Machine Learning & AI, communication, devops & CI/CD, database management

References & Recommendations Available Upon Request