Dylan Rhinehart

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LinkedIn | Github | Blog | Website

Full Stack Software Engineer / Machine Learning Specialist

A versatile Software Engineer with extensive experience in Python, computer vision, and full-stack development. Skilled in designing and deploying AI/ML models, building scalable solutions using Docker, and delivering real-time applications. My work spans from developing computer vision models for agricultural quality control, creating annotation tools and scaling production systems, to building beautiful interactive and functional UI's. I thrive on learning new technologies and applying them to solve complex real-world problems.

TECHNICAL SKILLS

Programming: Python, JavaScript, React.js, NextJS, Express.js, Ruby, Ruby on Rails, SQL, Django, C#, .NET, Flask, GRPC,

AI/ML & Computer Vision: YOLO, OpenCV, PyTorch, TensorFlow, Random Forests, XGBoost, SAM, Donut Document OCR

DevOps & Cloud: Docker, GitLab CI/CD, Google Cloud Platform, Heroku, Firebase

Frontend & UI/UX: React, Redux, Figma, Adobe Suite, Three.js, Responsive Design

Web & E-Commerce: Shopify, WordPress, SEO, SMO, CMS services, Custom API Development

TECHNICAL PROJECTS

Pistachio Classification - (Setton Farms Application)
A Ray GRPC application that serves classification results, using object detection, segmentation and random forest pipeline to classify Pistachios on a conveyor belt in real time.
- Implemented With CUDA and TensorRT to process images in under 900ms.
- Curated and Annotated Bounding Box & Segmentation Datasets, along with Creating Effective Random Forest classification datasets.
- Used Ray Serve with GRPC within a Docker Environment to effectively scale across multiple servers and GPU's
- Effectively trained and tuned model's to meet accuracy and speed requirements.

Audiophile - Github
A Social Media Like Music App for Artists, DJs, Producers, and even Listeners to share, listen, like, comment on theirs and others music.
- Created API That Serves Data in JSON when called upon (Rails)
- Built a method that Uploads Files via the backend (Rails) to Google Cloud Storage
- Built React Front UI with working Audio Player, File Upload, and Login/Logout Permissions
- Wireframe/Design , Planned, & Documented Project, using Figma and JsDocs

3D Planet Weight Calculator - Github
An interactive 3D Galaxy where a user can input their weight and it will tell you what your weight is on other planets.
- Used ThreeJS/ React-Three-Fiber to create a 3D canvas
- Designed & Implemented UI/UX using Figma
- Built logic for 3D object manipulation using React useRef
- Deployed to Netlify & Heroku

EXPERIENCE

Setton Farms - Software Engineer/ Machine Learning Specialist   08/2023 - Present - Terra Bella, California
- Developed and deployed machine learning models for agricultural quality control, including a YOLO-based segmentation pipeline for identifying and classifying defects in pistachios, also incorporated optical character recognition models to increase productivity of document processing in the logistics department, using DONUT and Python & React.
- Built and scaled a custom annotation website to streamline dataset labeling and model performance evaluation, using NextJS & Django. Scaled with NGINX and Docker.
- Managed multiple Docker instances, optimizing and automating deployments across production environments.

- Led efforts to integrate and deploy scalable AI/ML solutions for internal tools, leveraging Django, FastAPI, Ray and React/NextJS to deliver robust, user-friendly solutions.

The Source SLO - Head Of Marketing & E-Commerce   11/2019 - 12/2022 - San Luis Obispo, California
- Managed and established all branding efforts, including SEO, SMO, Blogging, offline marketing, etc.
- Coordinated Product Entry, Product Display Photography & Videography, Package Branding, & Website Design.
- Helped establish efficiency in the workplace by resourcing tools to aid in the process of the business. Such as phone systems, scheduling systems, and project management systems.
- Helped fine tune user web front experience and employee front end experience.

Chavez Web Design - Project Manager/Web Designer   02/2018 - 10/2018 - Visalia, California
- Proficiently managed multiple clients' SEO, SMO, PPC, and Print Marketing campaigns, resulting in increased online visibility and brand awareness for various businesses.
- Worked with various content management systems (CMS) such as WordPress, Wix, and Shopify, providing expertise in frontend development and resolving any design-related issues that arose.
- Collaborated closely with clients to design effective UI/UX experiences, understanding their needs, and translating them into visually appealing and user-friendly website designs.

EDUCATION

Flatiron School   New York, NY
Full Stack Web Development, Ruby on Rails and JavaScript program   Dec/ 2022 - Mar/2023