

Jonathan Essis

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Summary

Fullstack Engineer with a proven record in technical presentations and solution engineering. Successfully delivered mobile applications and integrated AI-driven features while collaborating with cross-functional teams to support pre-sales initiatives. Proficient in Python and TypeScript, with a solid understanding of software development life cycles, continuous integration, and deployment, poised to drive customer adoption and technical evaluations.

Education

The Pennsylvania State University

B.S, Computer Science, Mathematics, Music Technology

2024

Experience

Kouris LLC

Fullstack Engineer

Jun 2024 - Dec 2024

Remote

- Developed a full-stack mobile application using React Native (TypeScript) with Node.js/Python backends and PostgreSQL, providing technical demonstrations of adaptive AI features and detailed data visualizations for 20,000 users.
- Collaborated with project managers and product designers to integrate a custom-trained Siamese neural network, enhancing the application's capability to learn item compatibility—demonstrating strong technical communication and presentation skills.
- Integrated concurrent API pipelines (Cloudinary, Lykdat, Serpapi, OpenAI) to automate image detection and metadata extraction, showcasing technical proficiency and the ability to support pre-sales technical evaluations.
- Introduced new AI techniques that resulted in a scalable recommendation engine, reinforcing a foundational understanding of SDLC and continuous integration/deployment best practices relevant to technical pre-sales environments.

KPMG

Software Engineer Intern

Jun 2022 - Sep 2023

Remote

- Executed comprehensive UI testing on the Ignite AI platform, identifying and reporting over 300 bugs to enhance document ingestion and annotation workflows, thereby strengthening communication of technical issues and solutions.
- Developed and deployed prototype applications on AWS, Azure, and GCP to benchmark enterprise NLP solutions against KPMG's in-house platform, illustrating technical presentation skills aligned with pre-sales proof-of-concept initiatives.
- Led a computer vision project by prototyping a gimbaled face-tracking camera using deep learning, presenting a fully functional model that demonstrated technical expertise and facilitated customer technical evaluations.
- Collaborated within an agile, cross-functional team using Docker and DevOps practices to streamline back-end development, emphasizing proficiency in continuous integration and continuous deployment important for technical strategies.

Projects

Outfit Recommendation System API

- Engineered a machine learning API using a Siamese neural network to generate personalized outfit recommendations by processing raw JSON/CSV wardrobe data
- Developed modular data preprocessing and training pipelines in Python, integrating visualization tools to monitor model performance and optimize compatibility scoring
- Implemented a RESTful API with comprehensive logging, enabling real-time recommendation serving and efficient troubleshooting during experimental testing

RaffleLeader

- Reworked PHP, HTML, and CSS to reposition the toolbar per project lead's request, streamlining user interactions in a WordPress raffle plugin
- Developed a standalone React web app prototype in Javascript, CSS, and, HTML that reimaged the raffle system's front-end, modernizing the interface and enhancing usability

Skills

- **Backend:** Python, NumPy, TensorFlow, PyTorch, Matplotlib, Flask, Node.js, Java, C, C++, PostgreSQL, SQL
- **Frontend:** React, React Native, TypeScript, HTML, CSS
- **Development Tools:** Git, Docker, DevOps, SDLC, Continuous integration, Continuous deployment, GitLab knowledge
- **Soft Skills:** Technical Writing, Documentation, Data Visualization, Debugging, Testing, Presentation Skills, Customer relationship management, Market knowledge