Jakob M Paulson-Palmer

Fullstack Engineer

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Full-stack engineer with 4+ years of experience building data-driven web applications for start-ups and local companies. Skilled in front and backend frameworks, database management, and machine learning techniques. Seeking to join a rigorous tech organization with the opportunity to create impactful solutions.

Experience

AI Engineer/Product Developer Temp, Best Parents Inc.   May. 2024 - September. 2024

- Led full-stack development of a B2B university onboarding portal, from project vision to launch.
- Utilized React, Tailwind CSS, and MongoDB to implement secure user interfaces and database management.
- Leveraged Gen AI tools to deliver innovative solutions and accelerate the registration process.
- Collaborated with cross-functional teams and leadership on product design and project planning.
- Contributed to Figma designs and ensured alignment with the overall vision.

Full Stack Contract Developer, RetireMint LTD.   Feb. 2021 - Nov. 2021

- Developed an MVP web app (Next.js) within a small team, aiming to simplify financial journeys for users at all life stages.
- Integrated MongoDB, GraphQL and Azure Blob storage for efficient data management and asset handling.
- Implemented OAuth 2.0 for secure client and customer authentication
- Built a seamless persistent user onboarding experience with React's complex functional state components

Full Stack Contract Developer, Fresh Grease Inc.   Dec. 2020 - Jan. 2022

- Engineered and launched a progressive web app with the MERN stack, delivering bike part compatibility tools.
- Contributed to product direction, marketing, and overall team efficiency in a dynamic startup environment.
- Accelerated development through custom Python tools and maintained a scalable backend using MongoDB and GraphQL.
- Integrated essential e-commerce and content management APIs for enhanced functionality.

Projects

Computer Vision Engineer, Dog Breed Image Classifier

- Developed a dog breed classifier with 70+ breeds, utilizing and comparing state of the art CNNs (ResNet, DenseNet, Xception) and exploring a custom architecture for performance improvement.
- Implemented data preprocessing and augmentation pipelines to enhance model training
- Deployed the model on Amazon EC2 and built a custom educational web app.

Full-Stack Engineer, Soil Composition Assistant

- Developed a soil composition web app for gardeners to visualize and alter soil component ratios, aiding in soil health optimization.
- Integrated OpenAI's API and instructor models to provide plant-specific soil composition recommendations and explanations, empowering users with informed choices.
- Utilized Zod for robust data validation, ensuring data integrity and application reliability.
- Leveraged Vite and SQL for fast development and optimized performance.

Education

University of California, Berkeley Extension   Berkeley, CA
Certificate of Data Science   *February 2024*
Relevant Coursework: Introduction To SQL, Python for Data Analysis and Scientific Computing, Machine Learning With TensorFlow, Data Science Principles and Practice Using Python

Willamette University   Salem, Or
B.A. in Computer Science   *May 2020*
Relevant Coursework: Fundamentals of Machine Learning, Language Logic and Computation, Machine Learning Theory, Fundamentals of Data Science, Functional Programming, Architecture and Compilers, Data Structures