

# SCOTT FERNALD

## Senior Software Engineer

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### SUMMARY

Hi, I'm Scott, a pet lover with a passion for building software that makes a difference. With over a decade of experience, I've led teams to develop everything from mobile apps for pet lovers to AI-powered features that help animals find their perfect homes. My expertise spans full-stack development, cloud services, and integrating cutting-edge technologies like AI and LLMs. When I'm not coding, I'm probably chasing after my own pet (or two) and thinking about how to make the world a better place for animals—and their humans.

### MY LIFE PHILOSOPHY

There can be no friendship without confidence, and no confidence without integrity.

Samuel Johnson

Coming together is a beginning, staying together is progress, and working together is success.

Henry Ford

### EDUCATION

2007 - 2011    •    Bachelor of Science in Computer Science  
University of Washington



### EXPERIENCE

2023 - 2025    •    Senior Software Engineer  
Remote, US    Camlist



- Led development of a customer-facing mobile application using **React Native** and **Expo**, deployed on both **App Store** and **Google Play**, enabling users to browse pets for sale, view pet categories, and access pet financing options with a seamless experience.
- Implemented **real-time messaging functionality** in the app, integrating **OpenAI** for AI-powered chat, allowing buyers and sellers to have instant, secure, and personalized communication within the platform.
- Integrated **live video calls** feature, enabling sellers to showcase pets to potential buyers via video calls directly within the app, enhancing the buying experience without requiring in-person visits.
- Led development of **web platforms** using **PHP** and **WordPress**, allowing for the management and listing of pets for sale, and ensuring a user-friendly interface for both buyers and sellers.
- Worked with **cloud services** for infrastructure and deployment, optimizing the platform for scalability and performance to handle a growing user base and large volumes of pet listings.
- Collaborated on implementing **pet-related services** such as discounted health insurance, free vet checks, and flexible pet financing options directly within the app, improving the user experience for pet owners.

2022 - 2023    •    Freelancer  
Remote, US    Upwork



- Worked as a top-rated freelancer on Upwork, specializing in developing **AI**, **LLM**, and **automation** solutions to stay ahead of the latest AI technologies and integrate them into business applications for enhanced efficiency and innovation.

2017 - 2022    •    Senior Software Engineer  
Seattle, WA    Rover.com



- Led frontend development using **ReactJS** and collaborated with agile teams to deliver high-quality features.
- Contributed to backend development with **Python** and focused on relational database design.
- Developed customer-facing products to enhance the user experience for pet owners and pet sitters.
- Collaborated with cross-functional teams (product managers, designers, data scientists) to optimize user experiences. Actively mentored junior developers and shared knowledge to foster a culture of learning.
- Championed **automated testing** and **code quality** best practices to ensure scalable solutions. Worked in a hybrid, agile environment with **Scrum/Kanban** methodologies.

2013 - 2017    •    Senior Software Engineer  
Parsippany, NJ    Zoetis



- Led cross-functional teams to design, develop, and deploy automation systems, optical sensing technologies, and data-driven applications.
- Led software development for BioDevices, integrating **machine learning (ML)**, **machine vision (MV)**, and **generative AI** technologies into advanced software solutions
- Contributed to the development of a SaaS platform interacting with pet clinic built on microservices and event-driven architecture, leveraging a diverse technology stack including **Java** with **Spring Framework**, **Kubernetes**, **Helm**, **Node.js (with Typescript)**, **React**, **OSGi**, **MongoDB**, **Postgres**, **Tilt**, **Docker**, **GitHub**, **Jenkins**, and **Microsoft Azure Cloud (Kubernetes, Event Hub, Service Bus, Azure Functions with JavaScript and Java, Kubernetes, Cosmos DB, KeyVault)**.

# EXPERIENCE

2011 - 2013

Parsippany, NJ

Software Engineer

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- Designed and implemented **Python**-based data science solutions and machine learning models for system integration and innovation.
- Developed high-performance scripts in **Python, Java**, and **C++** for efficient data processing, leveraging advanced techniques to improve processing speed.
- Leveraged **AWS S3** and **EC2** for scalable storage and compute resources, optimizing data processing pipelines to reduce costs and increase performance.



# SKILLS

## Next-Gen Technologies

AI ML NLP LLM Machine Vision

## Programming Languages

TypeScript JavaScript Python Java C# PHP HTML CSS

## Frameworks

React Angular Vue Next Remix React Native Expo Flutter Node Express Django Flask  
FastAPI

## Libraries

Lodash Axios Moment.js Astro Chart.js Three.js D3.js Pandas NumPy Matplotlib Pillow  
Scikit-learn Keras PyTorch TensorFlow PyTest Celery Selenium BeautifulSoup Puppeteer  
OpenCV XGBoost spaCy NLTK Laravel Symfony Entity Framework

## 3rd Party APIs

Stripe PayPal RazorPay Square CoinGecko Plaid Google Maps Mapbox Twilio SendGrid  
Slack API Vimeo Algolia Elastic Search

## CMS

WordPress Drupal Shopify SiteCore Umbraco Salesforce

## Cloud Services

AWS Azure Google Cloud Platform