# 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**

Remote, US

### Senior Software Engineer
**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**

Remote, US

### Freelancer
**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**

Seattle, WA

### Senior Software Engineer
**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**

Parsippany, NJ

### Senior Software Engineer
**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

**Zoetis**

- 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    Twiliio    SendGrid

Slack API    Vimeo    Algolia    Elastic Search

### CMS

WordPress    Drupal    Shopify    SiteCore    Umbraco    Salesforce

### Cloud Services

AWS    Azure    Google Cloud Platform