**Bobby Estes**

Senior AI/ML Engineer, Technical Leader

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## SUMMARY

Dynamic and visionary Senior AI/ML Engineer with over 10 years of experience in software development and AI-driven innovation. Proven track record in leading technical strategy, fostering team growth, and deploying state-of-the-art AI solutions in alignment with business goals. Expert in Computer Vision, GenAI, and MLOps, with a strong product sense and a passion for empowering teams to achieve excellence.

## SKILLS

**Languages:** Python, JavaScript, C++

**AI Frameworks:** PyTorch, TensorFlow, Keras, Scikit-learn, XGBoost, Langchain

**MLOps Tools:** GCP (Vertex AI, GCR, GKE), AWS (SageMaker, Fargate), Azure, W&B, MLFlow, Databricks

**LLM Technologies:** OpenAI, Anthropic, Azure, Llama-3, Mistral, Multi-modal LLM

**Data Science:** Pandas, PySpark, BigQuery

**Web Frameworks:** Django, Flask, FastAPI, Node.js, React.js

**Databases:** PostgreSQL, MongoDB, Redis, Pinecone

**Orchestration:** Docker Swarm, Kubernetes, Airflow, Kubeflow

**CI/CD:** Git, Jenkins, CircleCI

**Cloud Infrastructure:** Terraform, CloudFormation

**Streaming:** Apache Kafka, AWS Flink

**ML Optimization:** TorchServe, TensorFlow Serving, NVIDIA Triton

## PROFESSIONAL EXPERIENCE

### Clearwater Analytics - Senior Machine Learning Engineer

02/2023 - Present

* Defined and drove the long-term ML technical strategy in alignment with product and business goals, enhancing AI-driven financial and investment management solutions.
* Led a high-performing ML team, fostering a culture of empowerment, support, and technical challenge, resulting in a 30% increase in team productivity.
* Implemented best MLOps practices, including experiment trackers and model registries, to improve model performance and decision-making capabilities.
* Integrated vector databases to efficiently store knowledge and build robust knowledge bases, enhancing data retrieval by 40%.
* Spearheaded cross-functional collaboration with Product and Engineering teams, ensuring a fast, predictable path from R&D to production.
* Achieved significant improvement in experimentation throughput, increasing speed by 50% through strategic unblocking of key experiments.

### Brainhub - AI/MLOps Engineer

10/2019 - 12/2022

* Developed Sierra.ai, revolutionizing document management and information accessibility, resulting in a 30% increase in operational efficiency.
* Engineered a real-time personalized recommender system for H&M using advanced ML architectures, boosting user engagement by 25%.
* Adopted MLOps best practices, ensuring system reproducibility and scalability, achieving a 52% reduction in AWS costs.
* Designed and implemented core ML serving architectures, balancing trade-offs between low latency and high throughput.
* Enhanced recommender systems with advanced evaluation metrics, improving user satisfaction and engagement by 20%.
* Deployed real-time recommendations using KServe, achieving improved model performance and responsiveness in production.

### Kensho - AI Developer

09/2016 - 09/2019

* Developed a TTS and STT solution, significantly enhancing voice synthesis applications and user experience.
* Built an ML system for forecasting energy consumption, improving predictive accuracy by 15%.
* Designed real-time streaming pipelines for financial data, enhancing retrieval efficiency by 30%.
* Implemented a serverless continuous training solution, optimizing model performance through automatic tracking.
* Extended multimodal capabilities of AI models, increasing response speed by 20%.
* Mentored junior developers, fostering skill development and enhancing team performance.

### Dana Scott Design - Full Stack Developer

02/2014 - 08/2016

* Translated Figma designs into reusable React components, enhancing application functionality and user experience.
* Designed and implemented RESTful APIs, optimizing communication and data flow.
* Progressed from front-end to full-stack development, demonstrating adaptability and technical growth.

## EDUCATION

### University of Kansas - Bachelor's Degree in Computer Science

2009 - 2013