

Kevin Rohling

kevin@kevinrohling.com

+1 (407) 209-7841

<https://github.com/krohling>

<https://www.linkedin.com/in/krohling/>

MS Artificial Intelligence @ UT Austin, GPA: 3.93 (In Progress)

Technical Skills

PyTorch, CNN training, LLM integration/finetuning, Imitation Learning, Retrieval Augmented Generation (RAG), Python, Flask, Javascript, React, Node, Postgres, Docker, API specification, DB schema design, Technical leadership, CI/CD Configuration, AWS (Sagemaker, S3, Lambda, EB, IAM, EC2, CloudFront, CloudWatch)

Recent Projects

Integrating Natural Language Instructions into the Action Chunking Transformer for Multi-Task Robotic Manipulation (NL-ACT) *github paper*

Technologies: *PyTorch, all-mpnet-base-v2, Action Chunking Transformers, Mujoco*

Developed an approach to integrating natural language instructions into the Action Chunking Transformer (ACT) for multi-task robotic manipulation. The experiments, conducted in a simulated Mujoco [Todorov et al., 2012] environment with a bimanual ViperX robot, focus on three tasks: object grasping, stacking, and transfer. The modified ACT model achieves an overall success rate of 89.3% across the three tasks, demonstrating the ability to map unseen task instructions to robotic control sequences.

Food Classification for Consumer Smart Oven Device

Technologies: *PyTorch, scikit-learn, MobileNetv3, Weights & Biases, Labelbox, EC2*

Using PyTorch, I trained a MobileNetv3 CNN on a dataset of 20k images across 31 classes, achieving high accuracy (> 95%) and performance suitable for deployment and real-time inference on a resource constrained embedded device. The model was exported to PyTorch Mobile and integrated with the oven's embedded Android operating system. I conducted all computer vision tasks, from data preprocessing and augmentation to model training and optimization.

LLM Agent for Analysis of Clinical Trial Datasets (SDTM/ADaM)

Technologies: *Python, AI Agents, LLMs, AI Code Generation, Output Summarization*

As the Lead Engineer on this project, I developed a multi-agent AI system to facilitate conversational interactions with clinical trial datasets (SDTM and ADaM). This system integrated an LLM (GPT-4-32K) to dynamically interpret and process natural language queries into executable code and database queries, enabling efficient real-time data visualization and analysis.

Recommendations

Jason Monberg - CEO @ Presence Product Group: Kevin and I worked with each other over 4 years on a range of AI enabled products, from traditional predictive analytics to pushing the envelope in the rapidly changing GenAI space. Kevin is exceptionally skilled, committed, and thoughtful in his work. He was consistently able to deliver complex technology solutions within committed timeframes and budgets. He is also a great leader and mentor. As the head of our AI practice, he not only led the delivery of innovative AI projects, he also promoted the use and understanding of AI technology, directly mentoring team members. He will be missed!

More recommendations available on LinkedIn

Work Experience

Presence Product Group, Acquired by Accenture, San Francisco, CA

Head of Artificial Intelligence

May 2023 - June 2024

Technologies: PyTorch, Computer Vision, AI Agents, LLM Deployment/Integration

Lead implementation for all AI projects. Implementation and development of internal AI Tooling. Drive internal training and AI mentorship for engineering and non-technical resources.

Sr. Engineering Lead

May 2020 - April 2023

Technologies: Python, Flask, React, Postgres

Hands on engineering leader and coder focused on building scalable web and data driven products including the Grid Resilience and Intelligence Platform for the DOE and Vibrant Planet. My role encompassed the full software stack, from architecting database schemas in Postgres, building backend APIs in Python and crafting beautiful front-end interfaces with React.

Test.AI, San Francisco, CA

VP Engineering

November 2019 - May 2020

Led a team of 25 Software Engineers and ML Researchers, deployed solutions for FAANG customers. Laid off in May 2020 when Covid broke funding

BookNook Learning, Oakland, CA

Founding Engineer/CTO

July 2016 - January 2019

Technologies: React, Node, AWS, Postgres.

Implemented the initial product suite, directly coding and architecting solutions that scaled to over 120 active sites and 2,500 students, achieving >\$1M in ARR and NPS of 63. Led implementation and deployment on all platforms including Chromebooks, iOS and Android.

Emberlight, San Francisco, CA

Founding Engineer/VP Engineering

June 2014 - September 2015

Technologies: Node, iOS, Bluetooth Low Energy (BLE)

Led hands-on development and launch of mobile applications and firmware, directly contributing to coding and system design, achieving over 10k units shipped and national distribution.

cisimple (ship.io), Acquired by ElectricCloud, AngelPad Fall '12, San Francisco, CA

Founding Engineer/CEO

February 2012 - June 2014

Technologies: Ruby on Rails, iOS, CI/CD, OSX Virtualization.

Hands-on development and scaling of the core platform, driving user growth to over 5,000 and achieving profitability. Orchestrated the acquisition process with ElectricCloud.

Education/Certifications

University of Texas at Austin (In Progress) - MS in Artificial Intelligence

University of San Francisco - Fast.ai Deep Learning Certification

University of Central Florida - Bachelors Computer Science

Amazon Web Services - AWS Certified Cloud Practitioner

Scrum.org - Professional Scrum Master (PSM1)