

Bo-Jian (Eddie) Ho

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AI Engineer, Full Stack Engineer

Experienced AI Engineer with 1+ years creating advanced AI agents and implementing state-of-the-art LLM fine-tuning techniques. Skilled in machine learning, deep learning, and data architecture.

WORK EXPERIENCE

Chima
AI Engineer, Member of Technical Staff • Full-time

12/2024 – Present
San Francisco, CA

- Designed and deployed advanced AI agents, including ReAct, SQL-based, and self-improving agents, to automate end-to-end enterprise workflows across 10+ platforms, significantly enhancing operational efficiency and scalability.
- Investigated and adopted state-of-the-art AI methodologies, such as chain-of-thought prompting, policy gradient optimization, and retrieval-augmented generation, to maintain a leading edge in AI-driven enterprise solutions.
- Led R&D initiatives to implement SOTA fine-tuning techniques, including GRPO, SFT, and DPO, enhancing LLM accuracy by 40% while improving reasoning and task execution capabilities in distilled language models.
- Implemented automation for enterprise workflows, achieving a reduction in operational costs by 33% within 3 months by enhancing efficiency and resource allocation.

LESSO
Data Scientist • Full-time

05/2024 – 11/2024
Los Angeles, CA

- Trained machine learning algorithms and deep learning with PyTorch for claims forecasting models, K-means Clustering, XGBoost, and LSTM to predict demand and inventory management, resulting in a 30% improvement in inventory turnover and a reduction in excess stock by 25% within 3 months.
- Automated the extraction, transformation, and load processes ETL using Python and SQL, leading to a 50% reduction in the time required to prepare data for analysis.
- Implemented a new ER modeling system for efficient database structuring that streamlined data flow and reduced redundancy, resulting in a 25% increase in productivity for the data analytics team.
- Utilized optimized data architecture strategies, such as Snowflake schema and virtual warehouse within Snowflake, improve data query performance by 40% and reduce storage costs by 25%.
- Developed a comprehensive data governance framework that included secure role-based access controls, RBAC and data masking to ensure that sensitive data in Snowflake was protected.

UC San Diego
Student Engineer • Part-time

09/2023 – 03/2024
San Diego, CA

- Optimized the performance of data warehouses by implementing indexing strategies and query optimizations that resulted in a 30% improvement in data processing speeds.
- Collaborated with cross-functional teams to translate business requirements into technical data solutions, aiding in the launch of three major product lines.
- Managed the lifecycle of big data solutions, including building and maintaining NoSQL databases such as Cosmos and Bigtable, which handled over 5TB of data.
- Devised data validation protocols and error identification mechanisms to ensure a 99.9 accuracy rate in data reporting.
- Initiated and led the deployment of an automated data quality system that reduced manual error correction by 75%, significantly increasing data reliability for end-users.

EDUCATION

Bachelor of Science in Data Science
University of California, San Diego

San Diego, CA • 09/2021 – 03/2024

Provost honors for 6 quarters, 3.8 overall GPA

PROJECTS

Langflow

01/2025 - Present

Langflow

Contributed to Langflow (github.com/langflow-ai/langflow), an app builder for retrieval-augmented generation and multi-agent AI applications, by identifying and fixing bugs and implementing additional integration features that improved user experience.

CSES Website

08/2023 - 02/2024

UC San Diego

Collaborated with a team of student engineers to rebuild the UCSD Computer Science & Engineering Society web application (csesucsd.com) from scratch. Utilized React, MongoDB, Express.js, Node.js, and implemented unit and integration testing using Jest and Cypress to ensure reliability.

SKILLS

Machine Learning: Deep Learning, Keras, Neural Networks, NLTK, Pandas, Reinforcement Learning, scikit-learn, Supervised Learning, TensorFlow, Unsupervised Learning

Programming & Software: Agile Methodology (Expert), Docker (Intermediate), Git (Advanced), Javascript (Advanced), JIRA (Advanced), Python (Expert), R (Advanced), SQL (Expert), Typescript (Advanced)

Data Management: Cassandra, DynamoDB, MongoDB, MySQL, Neo4j, PostgreSQL, Spark

Web Application: Alembic, Angular, Django, Flask, NextJS, Node.js, Prisma, React, Redis, Restful API

Computer Vision: Image Segmentation, Object Detection, OpenCV, Pattern Recognition