Huy Ho

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Master of Science: Computer Science   *Expected: May 2027*
- **Relevant Coursework:** Robotics AI, Software Development Process, Information Security

University of California, Berkeley   Berkeley, CA
Bachelor of Arts: Data Science   *Dec 2022*
- **Relevant Coursework:** Data Structures, Algorithms, Principles of Data Science, Database Systems, Artificial Intelligence, Machine Learning, Data Engineering, Data Inferences and Decisions, Probability, Web Design

EXPERIENCE

Cisco Systems   Atlanta, GA
Software Engineer   *Jan 2023 - Present*
- Led the design and implementation of the AuditBoard foundation project to automate ESG compliance audits, including 20+ databases, 10+ data transformations and 10+ ETL pipelines, rolled out across Supply Chain IT, cutting manual effort by 80%.
- Lead engineer for Bigeye platform at Cisco, managing deployment, integration, container orchestration, and platform operations supporting 10 Supply Chain IT teams and enabling enterprise-wide data observability.
- Built scalable FastAPI APIs handling 500+ daily calls and optimized database queries with caching, reducing retrieval times by 44% and lowering API load.
- Deployed apps with Docker and AWS (ECR, ECS), cutting EC2 image size by 25% and improving efficiency.
- Migrated 50+ legacy Control-M jobs to DBT Cloud and orchestrated ETL pipelines using Dagster, increasing pipeline reliability by 40% and reducing query runtimes by 30%.
- Engineered a backend system for an internal Large-Language Model (LLM) application using Retrieval-Augmented Generation (RAG), integrating 10,000 pages of unstructured internal docs and images with OpenAI API, LangChain, Weaviate, Snowflake, and PandasAI.
- Built hybrid rule-based and ML recommendation engine, reducing upgrade support tickets by 35%.
- Reduced energy consumption by 29% by applying LSTM and ARIMA models for forecasting and anomaly detection.
- Mentored two interns, providing technical guidance and supporting successful project delivery.

DataGood at UC Berkeley   Berkeley, CA
Project Lead   *Sep 2020 - Dec 2022*
- Led a team of 5 students to deliver data-driven insights for clients, including UC Berkeley, CIEE, and CalSafe.
- Taught fundamental computer science skills such as Git, SQL, and relevant Python libraries.

IDEXX Laboratories   San Diego, CA
Data Science Intern   *May 2022 - Aug 2022*
- Investigated a data leakage issue with the company's machine learning pipeline using Spark and SQL.
- Built a classifier with an accuracy of 88% to classify transaction items using feature engineering, natural language processing, H2O AI, and deployed it into the company's latest ontology version.
- Automated Avro and Parquet data wrangling, saving 1.5 hours per week previously spent on manual tasks.

UC Berkeley Research Laboratory   Berkeley, CA
Undergraduate Research Intern   *Sep 2021 - May 2022*
- Conducted research in machine learning (DE-TR) in collaboration with the US Army Research Laboratory.

Nozomi Networks   San Francisco, CA
Software Engineer Intern   *May 2021 - Aug 2021*
- Developed neural network models to forecast time-series data using Keras and TensorFlow; Presented to the CTO.

SKILLS

Languages: Python, Java, C, R, SQL, HTML, CSS, JavaScript, TypeScript
Libraries/Frameworks: FastAPI, Dagster, NumPy, Pandas, Tensorflow, Keras, Scikit-Learn, React
Others: AWS, Snowflake, Docker, Prefect, OpenAI, Langchain, Dbt, Spark, Hadoop, Weaviate, JUnit, Jenkins