

LAM HOANG

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EDUCATION

University of California, Los Angeles (UCLA)

June 2024

Bachelor of Science in Computer Science

- GPA: 3.79
- Relevant Coursework: Data Structures and Algorithms, Object-oriented Programming, Operating Systems, Computer Networks, ML, NLP
- Extracurriculars: UPE, DevX, ACM

EXPERIENCE

MD7 | Software Engineer Intern

June 2022 - September 2022

Software application to analyze cell site development data

Javascript | ASP.NET | C# | T-SQL | Power Bi

- Built feature that allows managers to analyze 5,000,000+ development steps across 300,000+ cell sites, providing insights on slower steps.
- Calculated time elapsed data between development steps to help managers optimize time for over 58,000+ types of steps.
- Created generative Power Bi graph tool to visualize time elapsed data.
- Led a team of 3 developers, designing application and managing workflow using Azure Devops and Scrum methodology.
- Presented feature to company executives, including the president and addressed discovered bugs in company's software.

ScAI Lab (UCLA) | Machine Learning Research Assistant

March 2023 - Present

Diffusion model for generating optimal NBA tactics

Python

- Extracted player trajectories and directions from 637 NBA motion tracking data logs for training data.
- Visualized generated trajectories of players and ball from diffusion model by leveraging open-source code.
- Generated random baselines for model evaluation.

PARISlab (UCLA) | Machine Learning Research Assistant

February 2023 - April 2023

Machine learning pipeline to classify mineral composition of image

Python | Pandas | Scikit-learn | Matplotlib

- Classified 1,126,400 pixels from various images to their respective minerals using a trained KNN model, achieving accurate results.
- Generated color maps using matplotlib to visually represent the mineral composition of the image, providing valuable insights.

PUBLICATIONS

Professional Basketball Player Behavior Synthesis via Planning with Diffusion

May 2023

Xiushi Chen, Wei-Yao Wang, Ziniu Hu, Curtis Chou, **Lam Hoang**, Kun Jin, Mingyan Liu, P. Jeffrey Brantingham, Wei Wang

ScAI Lab

- In submission to the Association for the Advancement of Artificial Intelligence 2023 Conference (AAAI)

PROJECTS

DevX Tech Lead | Retune

Oct 2022 - Present

Location based music discovery mobile app

MongoDB | Express | React Native | Node

- Developing cross-platform mobile application while collaborating with other developers, designers, and marketers.
- Managing backend endpoints, user data, and REST APIs for authentication, JWT security, location, and Spotify integration.
- Reviewing code, guiding team members in technical matters, and delegating tickets

LA Hacks Full Stack Developer | Objection!

April 2022

Web extension application to detect fake news

Javascript | Vite | Flask (Python) | Pytorch

- Built application as a team of 5 using a Natural Language Processing classification model with 98% accuracy.
- Constructed routes and APIs for server-side end and set up overall design of client-side UI.
- Presented to panel of 3 judges at hackathon and won 3rd place amongst 70+ teams.

Developer | Sumitup

Apr 2022 - June 2022

Web Extension to summarize text

Python | NLTK | Javascript | Firebase

- Pitched and demoed startup to panel of 5 venture capitalists.

Front End Developer | Dinr

Oct 2021 - Dec 2021

Web application for scheduling dining around UCLA's campus (team of 5)

MongoDB | Express | React | Node

- Programmed React components including user profile, friends, search features and manipulated users' data.

TECHNICAL SKILLS

Front End | React.js, Node.js, Javascript, HTML, CSS

Back End | Python, Express.js, ASP.NET, MongoDB, T-SQL, C, C++, C#, Flask, Java

Developer Tools & Services | Git, Agile Methodology, Azure Devops, SVN, npm, Webpack, Power Bi, Linux