

Henry Nguyen

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EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

May 2024

Bachelor of Science, Computer Science; Minor, Mathematics

GPA: 3.54

Coursework: Advanced Data Structures & Algorithm Analysis, Computer Organization & Design, Operating Systems, Programming Languages, Software Systems Development, Compiler Construction, Database Management, Software Testing

EXPERIENCE

LSU High Performance Computing Group

June 2023 – Current

Web Developer

Baton Rouge, LA

- Develop new Coldfront web application, utilizing Django, facilitating efficient resource, allocation, and compute job request management for 100+ college professors and researchers across Louisiana.
- Conceptualize current account application workflow into MVC architecture of the Coldfront application, maintaining consistency between current tool's functionality and future product's design.
- Facilitate communication between cross functional teams in order to define project requirements, foster open communication, and ensure comprehensive understanding of LSU HPC needs.

MogaoKoo/Licens

March 2023 – August 2023

Frontend Developer Intern

Remote

- Built and integrated new features into existing product, utilizing React.js, to provide the option to list various multimedia on Web3-based decentralized commerce platform.
- Launched redesigned product with collaboration alongside company CTO and CEO to incoming store partners, growing user traffic and transactions by 100%.
- Perform quality assurance, identified and reported software defects leading to improved product development while maintaining existing CI/CD pipeline development.

LSU Department of Mathematics

January 2022 – August 2022

Research Assistant

Baton Rouge, LA

- Developed production-ready simulations, collaborated with professors and graduate students to discover new approaches on effective control of marine robot movement.
- Created a simulation using Python, utilized NumPy and Matplotlib to model marine robot movement curve tracking.
- Evaluated 50+ pieces of literature, analyzed relevant research to verify understanding of curve tracking and following.

PROJECTS

Frody (Google Cloud Platform, React.ts, dbt, Firebase, Twilio), PennApps XXIV (University of Pennsylvania)

Fall 2023

Hackathon – Five Rings' Best Distributed Systems; PennApps' Most Technically Complex Hack

- Designed a distributed system using Google Cloud Platform to detect suspicious and fraudulent credit card transaction activity.
- Integrated Twilio API into distributed system by writing a REST API, ensuring immediate SMS notification of fraud.
- Implemented a random forest classifier utilizing BigQuery ML and dbt to analyze and model large-scale credit fraud datasets, achieving a predictive accuracy of 90%.

Code Flow (React.js, Flask, MongoDB, Cohere, Pyvis), Hack the North 2023 (University of Waterloo)

Fall 2023

Hackathon – 3rd in Cohere's Best Use of Cohere

- Created a React.js web application utilizing Cohere's LLM/NLP API to improve onboarding efficiency of company recent hires, decreasing onboarding time by 25%.
- Designed a dependency visualization using Flask and Pyvis to generate abstract syntax trees (ASTs), allowing users to examine file and folder dependencies of the code repository.
- Integrated a chat bot using Cohere's Embeddings feature to provide extensive knowledge of the code repository and assist user in feature development.

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, C++, C, Dart, MATLAB

Frameworks: React, Express.js, Node.js, Flask, Django, Ruby on Rails, Flutter

Databases and Tools: MySQL, MongoDB, Firebase | GCP, AWS, Bloomberg Terminal, GitHub, Bitbucket, Git, Jira

Software Development Methods: Agile methodologies, Scrum, test-driven development

INTERESTS

Competing in hackathons, watching Formula 1, reading books/big tech engineering blogs