Henry Nguyen

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EDUCATION

Louisiana State University (LSU), Baton Rouge, LA   **May 2024**
Bachelor of Science, Computer Science; Minor, Mathematics (GPA: 3.5)
Rewards: Taylor Opportunity Program for Students (TOPS) Honor ($8,000), Pelican Promise ($5,000), President's Honor List
Coursework: Advanced Data Structures & Algorithm Analysis, Computer Organization & Design, Operating Systems, Programming Languages, Software Systems Development, Compilers, Database Management, Software Testing

SKILLS

Programming Languages: Python, Java, C++, Dart, C, JavaScript, HTML, CSS
Frameworks: React.js, Flutter, Express.js, Node.js, Flask, Bootstrap
Databases and Tools: MySQL, MongoDB, Firebase | Visual Studio Code, Figma, Notion, Bloomberg Terminal
Configuration Management: GitHub, Git

PROJECTS

InterviewPrep.AI (React.js, Flask, Firebase, OpenAI)   Spring 2023
- Launched a web application using React.js to implement a graphical user interface (GUI), allowed extensive profile creation and effective practice behavioral interview sessions with OpenAI's GPT 3.5 API
- Integrated OpenAI's GPT 3.5 API using Flask as backend infrastructure, opened user-AI communication to receive meaningful feedback on user's behavioral interview answers, resulting in **25%** increase in interview success
- Architected a non-relational database using Firebase Database to create an organization API; recorded user profile as necessary context for GPT 3.5 to use during practice behavioral interviews, increasing feedback accuracy by **50%**
- Optimized user security using Firebase Authentication, prevented authentication failures by **75%**
- Collaborated with a 4 people team, organized weekly meetings and conceptualized project for LA Hack 2023 hackathon, presented to industry software engineers/product designers, receiving exemplary feedback on idea

Elapsed: A Swim Timer App (Flutter, Firebase)   Fall 2022
- Built a mobile-web app using Flutter, applied modern UI/UX concepts to implement web interface, which increased user efficiency of lap time tracking & storing for future analysis within competitive swimming.
- Debugged swimmer sorting algorithms, back tested swimmer order based on initial statistics to outline optimal solutions, account for tradeoffs and edge cases to display information with **100%** accuracy.
- Integrated Flutter bloc; utilized business-software logic within application for optimized state management.

Bloomberg Global Trading Challenge   Fall 2022
- Discussed trade ideas with teammates daily, reviewed findings from Bloomberg Terminal and Wall Street Journal to create planned investments, resulted in our team being ranked **4th out of 984 teams** globally.
- Capitalized on Q3 earning reports, utilized fundamental and technical analysis to identify opportunities in various securities, beat the WLS index by **18%**
- Allocated $1 million USD towards various securities, executed trades within the Bloomberg Terminal, led to a **P&L absolute of $217,000** within a 5-week span

EXPERIENCE

Licens, *Apprentice Frontend Developer* – New York, NY (Remote)   March 2023 – Current
- Developing new features, utilized React.js, integrated new features into existing product in order to provide the option to list various multimedia on Web3-based decentralized commerce platform
- Collaborate alongside company CTO and CEO to deliver improved and upgraded product to incoming store partners, promoted growth of user traffic and transactions by **100%**

LSU Department of Mathematics, *Research Assistant* – Baton Rouge, LA   January 2022 – August 2022
- Collaborated with professors and graduate students, delivered production-ready simulations 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

SASE LSU Geaux Hack, *Hackathon Co-Head*   August 2022 – September 2022
- Organized the inaugural Geaux Hack hackathon (**90+** participants) under SASE LSU to enable LSU computer science students the opportunity to illustrate their technical and creative skillset
- Designed the ruleset, problem prompts, web development workshops, and grading specifications vital to the event
- Engaged with industry software engineers and venture capitalists to garner interest in the event