

Henry Nguyen

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EDUCATION

Louisiana State University (LSU), Baton Rouge, LA

August 2020 – May 2024

Bachelor of Science, Computer Science; Minor, Mathematics; GPA: 3.5

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

Awards: President's List (Fall 2020), Dean's List (Spring 2021), 2022 Bloomberg Global Trading Challenge (Top 1%; 4th of 984 teams globally)

SKILLS

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

Frameworks: Bootstrap, React.js, Flutter, Express.js, Node.js

Databases: MySQL, MongoDB, Firebase

Tools: Visual Studio Code, Figma, Notion

Configuration Management: GitHub, Git

Other: Agile/Scrum, requirement analysis, documentation, usability testing, Vietnamese (reading/speaking proficiency)

PROJECTS

Portfolio Website

December 2022 – January 2023

- Created a personal portfolio website using React.js to showcase current skillsets and completed projects
- Utilized Node.js in order to build the website in real-time and allow seamless development and maintenance
- Implemented a live contact system using a JavaScript-based API EmailJS to promote instant communication

Elapsed: A Swim Timer App

August 2022 – December 2022

- Collaborated with a team of 5: actively communicated on app development in initial design, implementation, and delivery; presented in front of industry panel and received positive feedback on future direction of the application
- Developed a mobile app to help coaches track and store lap times for future logistics and decision making
- Integrated Flutter bloc into application for seamless state management

Course Schedule Network App

January 2022 – May 2022

- Collaborated with a team of 6: actively met to collaborate on tasks and present new ideas; received positive marks and responses in the Object-Oriented Design class
- Developed a Flutter web application for users to upload/share course schedule for comparison/centralization
- Utilized Dart backend architecture for internal object model storage and placement into Firebase databases

WORK EXPERIENCE

Research Assistant | LSU Dept. of Mathematics, Baton Rouge, LA

January 2022 – August 2022

- Collaborated with a diverse team of professors and graduate students to discover new approaches on how to effectively control theoretical marine robot movement
- Explored stochastic differential equations (SDE) and Euler-Maruyama method concepts in order to accurately model the robot's Brownian motion
- Created a simulation to model the curve tracking movement of a marine robot using NumPy and Matplotlib
- Reviewed multiple pieces of relevant research literature to deepen understanding of curve tracking/following

ORGANIZATIONS & VOLUNTEER

Hackathon Co-Head | SASE LSU Geaux Hack

August 2022 – September 2022

- Organized the inaugural Geaux Hack hackathon (90+ participants) under SASE LSU in order to provide LSU computer science students the opportunity to showcase their technical and creative skillset
- Created the ruleset, problem prompts, web development workshops, and grading specifications vital to the event
- Actively communicated with industry software engineers and venture capitalists on hackathon operation
- Collaborated with fellow co-head in operating Geaux Hack and designated tasks to fellow SASE officers

Professional Development Chair | Society of Asian Scientists and Engineers, Baton Rouge, LA

April 2022 – Present

- Empower Asian heritage scientists and engineers (100+ active members) for success in the global business world through professional development opportunities such as resume and public speaking workshops
- Launched a resume booklet consisting of 50+ resumes for sponsorship opportunities from companies interested in interacting with STEM resources of diverse Asian background
- Collaborated alongside other officers of the student organization to efficiently manage the LSU chapter