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)
Awards: President's List (Fall 2020), Dean's List (Spring 2021), 2022 Bloomberg Global Trading Challenge (4th of 984 teams)
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: 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 (React.js, NodeJS, EmailJS)   Winter 2023
- Created a portfolio website; utilized React.js to showcase business requirement analysis, software systems development, user specification elicitation, and product delivery
- Applied Node.js, integrated into JavaScript runtime for real-time development and maintenance
- Implemented a live contact system, applied a JavaScript-based API EmailJS to promote instant communication, **50%** increase in recruitment emails

Elapsed: A Swim Timer App (Flutter, Firebase)   Fall 2022
- Collaborated with team of 5; engaged in app development, displayed finished product in front of industry panel, led to **Top 3** Promising Apps within class
- Developed Flutter mobile app; referred to modern UI/UX fundamentals, increased efficiency of lap time tracking & storing for future analysis within competitive swimming
- Integrated Flutter bloc; utilized business-software logic within application for optimized state management

Course Schedule Network App (Flutter, Firebase)   Spring 2022
- Collaborated with team of 6; coordinated with teammates to communicate new ideas; resulted in final grade of A+
- Developed Flutter web application with **CRUD** operations for users to upload and share course schedule
- Built application with Dart used as backend for internal object model storage and placement into Firebase databases

WORK EXPERIENCE

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.
- Explored stochastic differential equations (SDE) and Euler-Maruyama method, interpreted random number variables to model Brownian motion
- 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

LEADERSHIP EXPERIENCE

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

Society of Asian Scientists and Engineers, *Professional Development Chair* – Baton Rouge, LA   April 2022 – Present
- Empower **100**+ Asian heritage scientists and engineers, organized resume, and public speaking workshops
- Launched a resume booklet, compiled **50**+ resumes through chapter outreach, coordinated with various company representatives to receive **10**+ sponsorships for the 2022-2023 school year.
- Evaluate monthly itinerary and address problems to optimize the experience of 100+ active members.