

# Henry Nguyen

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## OBJECTIVE

Software engineering student with full-stack development experience. Currently looking for positions in full-stack development involving JavaScript/React.js or software development in Python/Java.

## EDUCATION

**Louisiana State University (LSU), Baton Rouge, LA**

**August 2020 – May 2024**

*Bachelor of Science, Computer Science; Minor, Mathematics; GPA: 3.56*

**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%; 4<sup>th</sup> of 984 teams globally)

## SKILLS

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

**Frameworks:** Bootstrap, React.js, Flutter, Firebase, Express.js, Node.js, MongoDB

**Tools:** Visual Studio Code, Figma, Notion

**Configuration Management:** GitHub, Git

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

## 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

## PROJECTS

**Portfolio Website**

**December 2022 – January 2023**

- Created a personal portfolio website using React.js to showcase current skillsets and completed projects
- Deployed the portfolio website on GitHub Pages in order for viewers and clients to view live
- 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
- Applied Agile methodologies to efficiently manage and progress development of the application

## ORGANIZATIONS & VOLUNTEER

**Hackathon Co-Head** | *SASE LSU Geaux Hack*

**August 2022 – September 2022**

- Organized the inaugural Geaux Hack hackathon under SASE-LSU in order to provide LSU computer science students the opportunity to showcase their technical and creative skillsets
- Created ruleset, problem prompts, web development workshops, and grading specifications vital to the event
- Actively communicated with industry software engineers and venture capitalists to gain technical feedback on hackathon and judging panel operations respectively
- 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 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