SON NGUYEN HOANG

hoangson091104@gmail.com 2210 Granville Towers Ln S., Chapel Hill, NC, USA 27514
linkedin.com/in/hoangsonw github.com/hoangsoww +1 (413) 437-6759

EXPERIENCE

06/2023 – 08/2023 **VNG CORPORATION**
SOFTWARE ENGINEERING INTERN
- Was a full-stack web developer & a UI/UX designer. Created a sophisticated video steaming system using Web Assembly (WASM), CDN, Red5 and to fetch and render live camera streams for vCloudcam. Also developed vCloudcam's third version website using Figma, Angular, React, Redux-Saga, TailwindCSS, MongoDB, Webpack, Django, and MySQL using Micro-Frontend architecture.

02/2023 – 08/2023 **TOPICA NATIVEX VIETNAM**
TEACHING ASSISTANT
- Assisted primary teacher in 12 online English classes/week with lesson planning, language translations, classroom monitoring, assigning homework, and grading tests and assignments. Communicated with parents and students to provide feedback to help students learn and managed administrative tasks.

02/2023 – 05/2023 **CASE WESTERN RESERVE UNIVERSITY**
PEER TUTOR
- For the following courses: Calculus II and Programming in Java. Helped other students learn and strengthen course concepts through weekly recitation sessions and daily office hours. Assisted professors in grading. Communicated with students to create & recommend study plans for their academic success.

12/2022 – 05/2023 **CASE WESTERN RESERVE UNIVERSITY**
RESEARCH ASSISTANT
- Provided cultural feedback to researchers at the CWRU Mandel School of Applied Social Sciences in the Study of Human Rights in Southeast Asian countries and the Study of Southeast Asian Economics. Ensured data integrity for the research. Assisted researchers with data entry and visualizations using Tableau, GraphQL, and PowerBI. Critically reviewed research information and proposals.

12/2022 – 05/2023 **UPMERCH**
SALES/BUSINESS PARTNER & CUSTOMER REPRESENTATIVE
- Developed and executed various marketing and outreach strategies, such as hosting events, setting up booths, and leveraging social media platforms.
- Collaborated with UpMerch's professional design team to create custom merchandise that aligned with our customers' needs and preferences.
- Handled inquiries, complaints, feedback from customers.

EDUCATION

2022–2026 **THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL** **GPA 4.0**
Bachelor of Science (B.S.) – Computer Science
Bachelor of Arts (B.A.) – Economics
transferred from Case Western Reserve University after first year

2019–2022 **THE MACDUFFIE SCHOOL** **WGPA 4.36**
High School

PROJECTS

- **RecipeGenie**: A web-based cooking recipes database implemented with React.js, Node.js, MySQL, Redux Toolkit, JavaScript, and Cassandra that has more than 100,000 recipes from around the world. Also incorporates Machine Learning to automatically recommend relevant recipes for users.
- **MovieVerse:** A web-based movie database implemented with React.js, Node.js, MongoDB, Firebase, and Angular that contains approx. 900,000 movies to date and a movie discussion feature for users.
- **EventHorizon:** A web-based event countdown app that allows users to create any event, store, and view its countdown. Implemented with MongoDB, MySQL, TypeScript, Angular, and Node.js.
- **CommunitySphere:** An in-progress social media website that allows users to make posts, connect with, and message each other. Implemented with MongoDB, MySQL, Angular, and Node.js.

PRESENT & PAST ORGANIZATIONS

08/2022 – Present
GOOGLE STUDENT DEVELOPER CLUBS
SOFTWARE ENGINEERING TEAM LEADER
- Actively involved in growing knowledge and skills in developing programs to solve real-world problems in the Cleveland and Chapel Hill communities.
- Have been an integral part of the clubs' operations, assisting members with little to no programming experience and supporting clubs' executive leaders in organizing weekly meetings.
- Contributions include: brainstorming ideas, gathering members for meetings, training and review team members' code, and proposing innovative solutions to enhance the club's programs and large projects.

08/2023 – Present
MICROSOFT LEARN
MICROSOFT LEARN STUDENT AMBASSADOR
- Actively engage with the student community to promote learning and understanding of Microsoft technologies – includes conducting workshops and webinars, providing mentorship, and sharing resources to enable students to maximize their tech potential.
- Create a vibrant platform for knowledge exchange and collaboration, all while fostering an inclusive and forward-thinking tech community.

09/2021 – 02/2022
MACDUFFIE VIDEO GAMES AND TECHNOLOGY CLUB
PRESIDENT & FOUNDER
- Organized and led club meetings, workshops, and activities that aimed to educate members about the history of games & technology, as well as various skills such as game programming using Java, Python, Blender, and Unreal Engine.
- Created engaging activities that challenged members to explore their creativity and push their technical abilities. Provided resources for the club and helped it participate in various school events.

08/2019 – 05/2020
MACDUFFIE 'FIRST' ROBOTICS TEAM
ROBOT CONTROLLING SOFTWARE – LEAD PROGRAMMER
- Built and tested the robot and programmed the controlling software using Java and computer vision techniques which enabled the robot to perform various functions during the competitions.
- Played a crucial role in organizing team meetings, creating team banners, and designing team uniforms.

CERTIFICATES & ACHIEVEMENTS

- **Runners Up in 'Best Algorithm' Category –** CWRU Hackathon (HACKCWRU) Contest, March 2023.
- **Dean's High Honors List** – Fall 2022 and Spring 2023 semesters.
- **Connecting Front-End & Back-End (REST APIs) Certificate** – Codecademy, 2023.
- **Intermediate JavaScript & CSS & SQL Certificates** – Codecademy, 2023.
- **Machine Learning for Data Science & Analytics Certificate** – Columbia University, July 2022.
- **Data Science: R Basics and Probability Certificates** – Harvard University, July 2022.
- **Leadership and Communication Professional Certificate** – Harvard University, July 2022.
- **Champion (1st place) – Regional Massachusetts FIRST Robotics Challenge** (Spring 2020).

SKILLS

- **Proficient Programming Languages**: Java, Python, Assembly, JavaScript, TypeScript, C++, C, R, and Go. High proficiency in Object-Oriented Programming (OOP), unit-testing, and test-driven development.
- **Full-Stack Web Development:** Experienced with React.js, Node.js, Vue.js, Angular, WASM, PHP, Ubuntu (back-end development). Highly experienced with the Micro-Frontend architecture.
- **Databases & Database Management Skills:** MySQL, MongoDB, Cassandra, Azure SQL, Firebase.
- **Data Visualization & Analysis:** Experienced with PowerBI, Tableau, Stata, GraphQL, etc.
- **Version Control:** Highly experienced with Git.
- **Containerization:** Experienced with Docker and Kubernetes.
- **Design & Graphics Skills:** Adobe Illustration, Blender, and Figma.