Hua Chen

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EDUCATION

Lehigh University - Bethlehem, PA — Aug. 2020 – May 2024
Bachelor of Science in Computer Science, Minor in Data Science — GPA: 3.43/4.00
- **Relevant Coursework**: Programming and Data Structures, Systems Software, Foundations of Discrete Structures, Web Systems Programming, Computer Architecture, Software Engineering, Database Systems and Applications, Design and Analysis of Algorithms, Programming Languages, Operating System Design, Introduction to Data Science
- **Honors**: Dean's List

TECHNICAL SKILLS

- **Languages**: Java, C#, C, JavaScript, Python, HTML/CSS, C++, SQL (Postgres), R
- **Frameworks/Technologies**: React, Node.js, JUnit, FastAPI, Maven, Docker

EXPERIENCE

Software Engineering Intern — June 2022 – Aug. 2022
L3Harris Technologies — *Nashville, TN*
- Collaborated with a team of four other interns to develop a Forward-Looking Infrared (FLIR) sensor simulation application using C# to reduce the need for FLIR hardware presence during research and testing
- Encoded and decoded 20 types of message objects adhering to FLIR ICD guidelines to allow for secure transmission of status and commands between the connecting system and the FLIR system, respectively
- Utilized an internal geospatial game machine to support the sensor's positional data with respect to Earth

Participant — June 2022 – Aug. 2022
Google Software Sprint (SPS) Program
- Collaborated with two other undergraduate participants to build "Habit Stackers," a web application using HTML, CSS, JavaScript, and Java to allow an easy way for users to develop new and helpful habits
- Gained experience in collaborative, project-based web development under the mentorship of Google engineers
- Utilized Git version control and GitHub to conduct code reviews and implement web app features

Undergraduate Lead Teaching Assistant — Aug. 2022 – Present
Lehigh University - Software Engineering Course — *Bethlehem, PA*
- Serve as the main point of contact between course instructors and seven other teaching assistants to ensure timely and consistent student grading and feedback
- Mentor 10 students weekly about technologies used for programming assignments (Java, Maven, Javascript/Typescript)
- Assess the students' performance in teamwork and agile development skills through group projects

PROJECTS

SkyScout | *PostgresSQL, FastAPI, Python, Cohere NLP API* — Jan. 2023
- Awarded "3rd Place Overall" and "Best Use of Cohere's Natural Language Processing" out of 24 teams at Major League Hacking's Hackrithmitic 2 hackathon
- Developed backend with FastAPI to store user/flight information and display the sentiment analysis of reviews into a graph
- Designed and managed a PostgreSQL database using psycopg2, implementing user/flight relations and database operations while ensuring data consistency and reliability
- Formatted API responses to be in JSON format for seamless integration with the frontend

The Buzz | *Maven, Spark, React, PostgreSQL, Docker, Facts API* — June 2022 – Aug. 2022
- Developed a full-stack React.js web application with four other students to allow users to share stories and meet other users
- Implemented a secure login system through Google OAuth and utilized a SQL database to store user information
- Presented a Fact of the Day feature through fetching JSON objects from the Facts API service to spark user-to-user communication

Beat Buddy | *Ticketmaster API, Pug, HTML, CSS, Git* — Sept. 2021 – Dec. 2021
- Collaborated in a team of three other students to create a full-stack Node.js web application that provides concertgoers a way to connect with other attendees
- Structured and styled user interface with Pug/HTML/CSS to render elements dynamically
- Presented up-to-date upcoming concerts on the homepage by using endpoints provided by Ticketmaster API

LEADERSHIP

Regional Marketing Representative — Aug. 2022 – Present
Society of Asian Scientists and Engineers (SASE)
- Manage the SASE Northeast social media platforms to advertise media content and spread Asian culture and diversity
- Support over 30 collegiate chapters in the Northeast region on SASE's marketing guidelines and regulations

Social Media Chair — Aug. 2021 – May 2022
Southeast Asia at Lehigh (SEAL)
- Maintained all SEAL social media accounts (e.g. Facebook, Groupme, and Instagram) to advertise upcoming events.
- Recruited up to 180 members and obtained a 20% increase in membership over the course of a year