

# ZEAN (WYATT) HUANG

zeanh2@illinois.edu | wyhuang.com | (217) 200-0999  
Champaign, IL, 61820 | linkedin.com/in/wyatt-huang/

---

EDUCATION	<b>University of Illinois at Urbana-Champaign</b> <i>Bachelor of Science in Pre-Engineering (Computer Science)</i> <ul style="list-style-type: none"><li>• <b>Relevant coursework:</b> Intro to Computer Science I (<b>Java</b>), Intro to Computer Science II (<b>C++</b>), Linear Algebra with Computational Application (<b>Python</b>), Calculus I, II, III, Discrete Structures</li><li>• <b>Coursera</b> – Machine Learning, Neural Networks and Deep Learning</li><li>• <b>Certifications</b><ul style="list-style-type: none"><li>- <b>AWS Certified Solutions Architect - Associate (SAA-C02)</b></li><li>- <b>Microsoft Certified: Azure Fundamentals (AZ-900)</b></li></ul></li></ul>	August 2021 - May 2025 Cumulative GPA: 3.97/4.00
WORK EXPERIENCE	<b>Research Intern</b> <i>Bio-robotics Lab at Carnegie Mellon University</i> <ul style="list-style-type: none"><li>• Designed and implemented a cloud architecture using AWS services to retrieve, store, visualize, and analyze large data stream produced by robots in real-time</li><li>• Used ZeroMQ to improve client-server communication in an asynchronous way</li><li>• Implemented P2P video live streaming from Raspberry Pi to a mobile or web client using WebRTC</li></ul> <b>Innovation Engineer</b> <i>Gies Disruption Lab at UIUC</i> <ul style="list-style-type: none"><li>• Created pageification of each NFT to display its information using React</li><li>• Retrieved and stored NFT information on IPFS as the decentralized storage</li></ul> <b>Web Development Intern</b> <i>ATLAS Internship Program</i> <ul style="list-style-type: none"><li>• Built a website from scratch using WordPress with customized searching and filtering functionality</li><li>• Scraped data from websites using python libraries, such as BeautifulSoup and pandas</li></ul>	Pittsburgh, PA May 2022 – Aug 2022  Urbana, IL January 2022-Present  Urbana, IL Jan 2022 – May 2022
PROJECTS	<b>LED Gesture Controller</b> <i>Flutter, OpenCV, Flask, WebRTC, ESP32, AWS IoT Core</i> <ul style="list-style-type: none"><li>• Built a mobile client using Flutter interacting with Flask backend to control LED strips using AWS IoT</li><li>• Implemented WebRTC to delivery video streams between client and server in near real-time</li><li>• Used OpenCV and MediaPipe library to process video streams on the backend</li></ul> <b>Sorting Algorithm Visualizer</b> <i>React, MaterialUI</i> <ul style="list-style-type: none"><li>• Designed the layout of user interface using components from Material UI library</li><li>• Visualized sorting process of varied sorting algorithms with adjustable parameters using React framework</li></ul> <b>Image Scraper/Downloader</b> <i>PERN Stack, Cheerio, Puppeteer, JavaScript, HTML, CSS</i> <ul style="list-style-type: none"><li>• Used React, HTML, CSS, and third-party libraries to build the frontend</li><li>• Implemented functionalities to automatically navigate websites and scrape data using Puppeteer and Cheerio</li><li>• Built the backend using Express to connect with the PostgreSQL database and serve a REST API</li></ul>	Mobile Application          Web Application       Web Application
SKILLS	<b>Programming Languages</b> JavaScript, Python, C++, Java, Rust, SQL, Solidity, MATLAB  <b>Tools and Frameworks</b> React, Express, NodeJS, PostgreSQL, AWS, Azure, Flutter, WebRTC, ZeroMQ, Git, Selenium, NumPy	