Yvan Chu

+1 617-230-0023 | yvan@u.northwestern.edu | yvanchu.me/resume

EDUCATION

Northwestern University | Evanston, Illinois — Expected **Jun 2023**
Bachelor of Science in **Computer Science** | Minor in **Data Science & Engineering** | **Cumulative GPA: 3.94 /4.00**
Awards: 1st Place Northwestern Garage Launch Incubator, QuestBridge Scholar, APIA/Wells Fargo Scholar
Courses: Algorithms, Data Structures, Web Development, React, Probability, Statistics, AI, Optimization

SKILLS

Programming: Python, JavaScript, C++, MATLAB, R, HTML5, CSS, SASS, XOJO
Technologies: React JS, React Native, Node JS, Rest API, SocketIO, MongoDB, Git, Figma, Kanban board
Language: Fluent in Mandarin

EXPERIENCE

EZClinic | Remote — Jun 2021 — Aug 2021
Frontend Development Intern
- Developed cross-platform native application that video streams and alerts nurses of ICU patient conditions
- Designed and implemented UI/UX prototypes in Figma after researching ICU emergency workflow
- Maintained detailed documentation with accessible instructions for future user testing and development

WhaleTeq | Taipei, Taiwan — Jun 2020 — Sep 2020
Product Marketing Intern
- Scripted, recorded, and produced 10 product marketing videos for ECG hardware and software test solutions
- Analyzed digital marketing strategy for the launch of SECG 5.0 AIO and UDI Management System
- Pitched user experience and interface design to Product Management for a handheld hospital ECG simulator

PROJECTS

Sushi Go Digital — Mar 2021 — Present
Full Stack Development (Express, ReactJS, NodeJS)
- Implemented web app for *Sushi Go*, a multiplayer card switching game, using React class components
- Created Game and Player class to process player-to-player and player-to-table card swapping game mechanics

Bi-Directional Tactile Navigation Glove — Jan 2021 — Present
Hardware Implementation and Arduino Library/API (C++)
- Built a 5-vibration motor wearable for blind or low vision users as a cardinal navigation interface
- Developed an Arduino library to control the vibration motors independently with variable frequency and patterns
- Won 1st place out of 20 teams and secured $1,000 in funding through Taipei Medical University's Startup Contest

Marmon Hardware Hackathon: Sandwich Assembly Guidance System | Chicago, IL — Feb 2020
Electronics Design (C/C++)
- Built camera-based progress tracking system with LED indication to increase accuracy for sandwich makers
- Won Innovation Award for the implementation through Pixy camera tracking and low switching costs

Underwater Remotely Operated Vehicles (ROV) | Tamuning, GU — Aug 2016 — Apr 2019
Project Manager
- Headed 2 teams of 5 to build remote controlled camera-enabled robot with manual hydraulic claw manipulators
- Taught underclassmen to solder and waterproof electronic components and assemble buoyancy neutral frames
- Won 1st, 3rd, and 4th in MATE ROV Regional Competition in Navigator Class. Attended World Championship

LEADERSHIP

Northwestern University | Evanston, IL — Sep 2020 — Present
Senior Tutor- Engineering Analysis, Discrete Math
- Hosted weekly office hours to clarify concepts, reviewed code, and answered questions with 10-12 students
- Train 10+ new Engineering Analysis tutors and check in weekly to gather feedback and provide support
- Create rubric and grade discrete math homework solutions for 100+ students

Ayers Residential College of Commerce and Industry (CCI) | Evanston, IL — Apr 2020 — Apr 2021
Vice President
- Coordinated project planning protocol and restructured committees to ensure smooth internal operations
- Moderated executive board meetings to manage team dynamic and discussion productivity
- Communicated with 100+ residents and faculty fellows to understand any concerns relating to residential life