Howard Wang

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EDUCATION

UC SAN DIEGO
BS IN COMPUTER SCIENCE
Expected 2021 | La Jolla, SD
Major GPA: 3.5

LINKS

Portfolio:// **h-wang.me**
Github:// **hwanggit**
LinkedIn:// **hwangprof**

COURSEWORK

Data Structures
OO Programming
Computer Assembly
Mathematical Modeling
Data Science and Analysis
Circuit Design and Analysis
Discrete Mathematics
Unix Scripting
Block-chain

SKILLS

Languages
HTML/CSS • JQuery/Javascript
Java • C • Python • C# • Latex
Node • PHP • Bash

Software/Tools
Firebase • Raspberry Pi
Git Version Control • Unity
VIM • Bash Shell • Github
Matlab • R • AutoCAD
MS Office • Visual Studio

AWARDS

Top 3 out of 20
Placed 3rd out of 20 teams in
UCSD IEEE Quarterly Projects
Competition, creating a medically
assistive IoT device for patients, and
developing a live patient dashboard.

Top 3 out of 25
Placed 3rd out of 25 teams in
Mayor's Youth Council Hack-a-thon
2017 for designing a prototype app
that increases accessibility to the
city's parks and amenities for Hikers.

PROJECTS

PI FOR PARKINSON'S | IoT AND SOFTWARE
January 2019 - March 2019 | San Diego, CA

- Lead a team of 3 in UCSD IEEE Quarterly Projects Competition Winter '19.
- 3-D printed a medically assistive IoT device for Parkinson's Patients.
- Used Raspberry Pi, python, servos to read from IMU and correct symptoms.
- Created clean and stunning dashboard to chart data from Firebase.
- Languages and Frameworks: Node.js, Chart.js, Firebase, PIGPIO, Python.

ACACHOIR.UCSD.EDU | PROFESSIONAL WEBSITE
December 2018 – Present | San Diego, CA

- Created professional website for school org, hosted on UCSD web server.
- Used bootstrap to create professional UI/UX web layout and pages.
- Implemented interactive read-and-listen webpage for learning songs.
- Customized features to fit organization's primary advertising needs.
- Languages and Frameworks: Bootstrap, HTML/CSS and Javascript/JQuery.

DL-DESIGN.NET | DESIGNER'S PORTFOLIO
Dec 2018 | San Diego, CA

- Commissioned by a friend to create her Interior Design portfolio.
- Integrated UI features such as background parallax, Navbars, and more.
- Integrated mobile functionalities such as collapsible and draggable sidenav.
- Created fullscreen modal sliders using carousels and overlays.
- Languages and Frameworks: Materialize, HTML/CSS and Javascript/JQuery.

LIFEWATCH2.0 | SD HACKS 2018
Oct 2018 | San Diego, CA

- Lifeguard trainer created with Unity, SteamVR, and VIVE controller.
- Created VR UI/UX environment using Unity objects and packages.
- Programmed VIVE controller and Unity object functionalities in C#.
- Worked in team of 4 called LifeWatch2.0 for SD Hacks 2018.
- Languages and Frameworks: Unity, SteamVR API, Vive API, C#.

EXPERIENCE

LUMINERVA | GAME DEVELOPER
June 2017 - August 2017 | Calgary, CAN

- Tested and prototyped an android educational gaming app for students.
- Prototyped new functionalities for the app using Java and JavaFx.
- Created a random math problem generator and Connect 4 puzzle.
- Led a project maintenance team of 3 to test and debug code.
- Languages and Frameworks: Java, JavaFx, Latex, Shell

LEADERSHIP

UCSD A CAPPELLA CHOIR | DIRECTOR OF EXTERNAL AFFAIRS
Sept 2018 - Present | San Diego, CA

- Appointed Director of External Affairs for UCSD A Cappella choir club.
- Handle external affairs such as outreach, sponsorships, and marketing.
- Developed business-ready website for club using frameworks.
- Teach club members A Cappella singing techniques.