Ronan A. Konishi

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ronanblog.tk

SUMMARY OF QUALIFICATIONS

- Developed and maintained web applications for Qualcomm Institute – UCSD Division of Calit2
- Developed and Hosted personal Website/Blog from the Ground Up
- Prototyped Fall Detecting Communication Device for UCSD IEEE Parkinson's Disease Design Competition
- Headed a robotics team that developed a Vision Tracking System for Automated Robot Maneuvering
- Wrote a Research Paper and developed Software for Image Classification of Convolutional Neural Network
- **Technologies used:** Java, Laravel, C, C++, Python, PHP, HTML, CSS, Javascript, MySQL, SQL, AWS, Machine Learning, OpenCV, deeplearning4j, MaterializeCSS

EDUCATION

University of California San Diego **Anticipated** June 2022
Bachelor of Science in **Computer Science, GPA 3.913**

WORK EXPERIENCE

Software Developer, Qualcomm Institute – UCSD Division of Calit2 (10/2018 – current)

- Developed Tricorder database website with API, UI, validation, authentication, and filtering functionality in Laravel.
- Updated UCSD VA app with Database Migrations, POST and GET API methods, and UI in Laravel.
- Developed Android app with 3D camera for face mesh rendering and eye measurement for Fetal Alcohol Syndrome Disorder detection.

PROJECTS

Ronanblog.tk, Personal Website/Portfolio (6/2019 – current)

- Developed a Personal Blog/Profile page with User Authentication, CRUD functionalities, and Responsive UI
- Used Laravel, PHP, HTML, JavaScript, CSS, Bootstrap, AWS EC2, Apache, MYSQL, and SQL

Smart Room Regulator, Arduino Room Regulator (6/2019 – current)

- Developing Arduino Device that automatically powers a fan at high temperatures and displays room stats
- Used Arduino Software, Bluetooth Module, Solder, Wiring, Protoboard, and Sensors

Convolutional Neural Networks for Skin Cancer Detection (8/2017 - 6/2018)

- Developed Convolutional Neural Network Software in Java for Skin Cancer Image Classification
- Wrote a Research Paper on the Effectiveness of this Software and a Blueprint for future studies

EXTRACURRICULAR EXPERIENCE

IEEE at UCSD, Parkinson's Disease Design Competition (1/2019 – current)

- Prototyped Android device worn by Parkinson's Disease patients for hazard detection within the household
- Developed Android smartphone application with Bluetooth functionality to receive data from Arduino using Java

HackXR (5/2019)

- Developed a Virtual Reality survival game for the Microsoft Mixed Reality headset in Unity 3D using C#

UC Health Hacks (10/2018)

- Developed front end for Smartphone Application with Android Studios in Java

Programming Lead, FIRST Robotics Competition (8/2014 - 6/2018)

- Developed HSV Vision Detection Software with Jevois camera in Python for Automated Robot Maneuvering in Java
- Developed Software and GUI to compare robot motor RPM projections with mathematically produced ones in Java