

# Ronan A. Konishi

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## SUMMARY

- Developed and maintained web-based applications for Qualcomm Institute – UCSD Division of Calit2
- Prototyped Fall Detecting Communication Device for UCSD IEEE Parkinson's Disease Design Competition
- Participated in HackXR and UC Health Hacks hackathons
- Took part in surfing, Kendo, and fencing recreational clubs
- A member of the Triton Ohana Ukulele club

## EDUCATION

University of California San Diego

Anticipated June 2022

Bachelor of Science in **Computer Science**, GPA 3.96

## WORK EXPERIENCE

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

- Developed Tricorder app implementing API functionalities, UI searching, and form validation in Laravel.
- Updated UCSD VA app adding Database Migrations, Post and Get API methods, and front-end changes in Laravel.
- Developed Laravel Blog website with User Authentication, CRUD functionalities for posts, and MYSQL database.
- Training: Laravel video series, React.js Codecademy, SQL interactive course, and AWS Coursera, Javascript tutorial

## PROJECTS

**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

**AP Research**, Convolutional Neural Networks for Skin Cancer Detection (high school) (8/2017 - 6/2018)

- Developed convolutional neural network software in Java using deeplearning4j library for skin cancer image classification
- Wrote a research paper on the efficacy of this software and a blueprint for future studies

## ACADEMIC EXTRACURRICULAR EXPERIENCE

**HackXR (hackathon)** (5/2019)

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

**UC Health Hacks (hackathon)** (10/2018)

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

## NONACADEMIC EXTRACURRICULAR EXPERIENCE

**Surfing Recreational Class** (3/2019 – current)

**Triton Ohana (Ukulele Club)** (1/2019 – current)

**Kendo Recreational Class** (1/2019 – 3/2019)

**Fencing Recreational Class** (1/2019 – 3/2019)

## LANGUAGES

Japanese      Conversational

Spanish      Basic