

# IAN ZURUTUZA

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🌐 github.com/ianzur



Well rounded graduate student looking to continue learning new ways to manipulate data into meaning conclusions.

## EXPERIENCE

### Research Assistant

#### Human Movement Performance Lab

📅 May 2019 – Ongoing

📍 UNT Health Science Center

- Developed a pipeline to automatically align several separate csv datas temporally and spatially for further analysis
- Re-trained object detectors to locate and identify objects specific to our environment in recorded video
- Built and maintained project documentation to ease onboarding for new hires

### Teaching Assistant

#### Biomedical Instrumentation & Data Acquisition

📅 Sept 2018 – August 2019

📍 University of North Texas

- Instructed a lab of 20 students three times each week
- Organized and managed lab inventory
- Graded weekly course assignments

## PROJECTS

### Speeding up video annotation

#### UNT Human Intelligence and Language Technologies Lab

📅 Now – Ongoing

- Leveraging the strength of pretrained image detection models to learn new specific objects quickly with minimal manual labeling.

### Vigilant Baby Monitor

#### UNT Biomedical Engineering Department

📅 September 2017 – May 2018

- Prototyped a device to estimate heart rate in real time from a video stream
- Oversaw hardware selection, budget, & purchasing
- Communicated progress with advisor weekly

## TECHNICAL SKILLS

Most Comfortable with: python opencv git bash MultiSim

SolidWorks Tensorflow Object Detection api

Previous Experience: Qt node.js + MongoDB HTML C++

Matlab Utiliboard

## EDUCATION

### MS in Biomedical Engineering

#### University of North Texas, GPA: 4.0

📅 Sept 2018 – May 2020

Masters Minor in Computer Science

### BS in Biomedical Engineering

#### University of North Texas, GPA: 3.6

📅 Sept 2014 – May 2018

Minors in Math & Computer Science

#### Course Highlight:

- Computational methods
- Artificial intelligence
- Micro & nano fabrication techniques
- FDA best practices - biomedical devices

## ACHIEVEMENTS



#### Best Senior Design Project

2018 – UNT Biomedical Engineering



#### Eagle Scout

Troop 690 – Rockwall, Texas

## REFERENCES

#### Dr. Vijay Vaidyanathan

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✉ Biomedical Engineering  
University of North Texas  
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#### Dr. Rodney Nielsen

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