

# Brendon Dulam

## Software Developer

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## Experience

### Software Engineer @ Veoneer Japan

August 2018 — Present

#### *Data Management Tool*

- ⇒ Developed a web application for storing the locations of vehicle CAN data recordings in the in-house data center
- ⇒ Developed microservices/REST APIs for feeding the data recordings as input to backend tools like data mining, machine learning based data annotation, KPI analysis Tools
- ⇒ Secured the application using the Microsoft Authentication Library (MSAL).
- ⇒ Deployed the app to more than 100 virtual machines and 10 physical servers
- ⇒ Created a web-based platform for visualizing Lidar, Radar and Camera recordings using Uber's Xviz protocol
- ⇒ Communicate and collaborate with multi-disciplinary teams of engineers, project leaders on a daily basis

#### *Lidar PCAP Decoder*

- ⇒ Developed a backend tool that sniffs the LAN UDP packets for extracting Lidar point cloud information from Velodyne Lidars
- ⇒ Stitched (combined) point clouds of lidars with various models, translational positions, and rotation angles
- ⇒ Gained a better understanding of the seven OSI model layers

#### *Machine Learning Based Camera and Lidar Annotation*

- ⇒ Used Mask RCNN using MS COCO trained neural network model to label images for pedestrian, cars, trucks, etc.
- ⇒ Retrained the neural network for externally-sourced human-labelled data.

### LED Design and Development Engineer @ KOTO Electric Ltd

October 2017—July 2018

- ⇒ Developed a Dimmer controller for LED lighting fixtures using an Arduino microcontroller.
- ⇒ Developed a controller for 64 x 128 RGB dot matrix LED panels using Arduino.
- ⇒ Created assembly and layout drawings using AutoCAD 2017.
- ⇒ Coordinated with suppliers from China, sales representatives, and machine industries for aid in project completion.

### Electrical Engineer @ Rokko & Associates

July 2015—October 2017

- ⇒ Participated in planning the electrical works construction of a 35-floor building in Kokubunji
- ⇒ Used AutoCAD to draft electrical wiring plans.
- ⇒ Inspected the quality of the wirings done by the subcontractors.

## Skills

### Programming Languages

C, Python, Go, Typescript, HTML, Javascript (ES6), CSS, GraphQL, Matlab

### Libraries & Frameworks

Echo, Flask, Express, React, Gatsby, NextJS, NodeJS, Pandas, Numpy, Material UI, Bulma, Bootstrap, Highcharts, ChartsJS

### Tools & Platforms

Git, CircleCI, GithubCI, PM2JS, Netlify, Heroku, Docker, Serverless, AWS Lambda, PowerBI

### Database

MongoDB, MySQL, Redis, FaunaDB

### Design

Adobe XD, Inkscape, MS Publisher, MS Powerpoint

## Education

### University of the Philippines

2008-2015 // Diliman, Quezon City  
Bachelor of Science in Electronics and Communications Engineering

- Graduated Cum laude CWA 1.53 (1.00 Highest)
- Consistent Deans Lister

### Misamis Occidental National High School

2004-2008 // Oroquieta City

- Graduated Valedictorian

## Language

English  
Japanese JLPT N3

## Interests

Web application development  
IoT  
Mobile App development