

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, Matlab, PowerShell, GraphQL

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