

# Jodi Gunawan

Software Engineer, Full Stack Developer

Expected Graduation Date: May 2020  
github.com/jodigo | linkedin.com/in/jodi-gunawan  
(778) 681-1098 | jgunawan.1998@gmail.com

## EDUCATION

**University of British Columbia**, 2015. *B. ASc. in Electrical Engineering*

Software: C, C++, Python, HTML5, CSS, JavaScript, XML, Ruby on Rails 5, SQL, Git, Unit Test

Tools: AWS, Angular, Docker, Microsoft Azure, NoSQL, PostgreSQL, React, Redis, ROS, Sass, Tensorflow

## TECHNICAL WORK EXPERIENCE

**Junior Full Stack Developer, UBC.** *Vancouver, Canada.* (May - Aug'19)

- Implemented Natural Language Processing model for short text message analytic tools using predefined label, topic modelling and sentiment analysis with UBC Data Science Research Experts
- Developed data visualization features to provide interactive informative display of processed data using D3.js, Plotly, React and Angular 6
- Redesigned the API and architecture using Python, AWS, Microsoft Azure and Docker to create partial serverless microservice architecture which increases modularity and reduces costs by 50%

**Software Developer, Glacier Media Inc - Real Estate Wire.** *Vancouver, Canada.* (Jan – Aug '18)

- Implemented an event tracking system using Google Bigquery to analyze the user pattern for data analytics
- Migrated a legacy third party CMS Polopoly via a database design and import using PostgreSQL
- Developed real estate news site stored in AWS S3 using Coffeescript and search results localization which boosted user retention by 100%
- Participated in bi-weekly sprints and kanban flow in agile culture with JIRA ticketing system

## TECHNICAL PROJECTS

**UBC Subbot, Object Detection Team** (Jun '18 – Jan'19)

- Developed the control logic for autonomous submarine using ROS to participate in Robosub Competition
- Trained the Machine Learning object detection model using Tensorflow and created unit tests using PyTest

## VOLUNTEER WORK EXPERIENCE

**UBC Gado-Gado Indonesian Student Association.** *Vancouver, Canada.* (Sep '17 – May'19)

- Created the gisaubc.com website using HTML5, CSS, Javascript and Bootstrap
- Mentored web development for new marketing team member

**Autonomous Wind Turbine Design Project.** *Vancouver, Canada* (Jan '19 – May'19)

- Developed the control system of Self-Powered Wind Turbine (with Fan Mode) using Arduino to maximize the power generated from sensor inputs and generate three phase PWM to power the fan
- Designed a mobile app to control the turbine direction and switch between the turbine and fan mode

## LEADERSHIP & AWARDS

Work Learn International Undergraduate Research Award '19

Grade 8 ABRSM Practical Exam for Classical Guitar and Teacher Certificate '15

1st place Indonesia International Schools Activities Conference (IISAC) Basketball Tournament '15

## HOBBIES

Sport (Basketball, Volleyball, Table Tennis), Music (Classical Guitar), Other (Foodie)