# Prajna Kandarpa

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#### **ABOUT**

pertise in big data, machine learning and ANALYTICS full stack web development. I want to show July 2015 - Dec '15, Jun '16 - Dec '16 | Waterloo, Canada the effectiveness of data science in improving process efficiency and catching engineering failures to non-technical audiences

#### **FDUCATION**

#### **UNIV. OF WATERLOO**

BACHELOR OF APPLIED SCIENCE IN MECHATRONICS ENGINEERING May 2016 | Waterloo, Canada Cum. Avg: 71.28 Internships: 7 | Experience: 3 years

#### SKILLS

#### **LANGUAGES**

Extensive:

JavaScript • R • Python • HTML/CSS MATLAB • Bash

Comfortable:

Go • Spark • Hadoop • C • Objective-C Java • Typescript

#### **TECHNOLOGIES**

Extensive:

Node.js • AngularJS • Git • Unix

Emacs • docker • Amazon Web Services

LaTeX • PostgreSQL • MySQL

Comfortable:

Django • Flask • XCode • DevOps

## LINKS

GitHub: prajnak Website: prajis.me Blog: prajis.me/blog

# COURSEWORK

#### UNDERGRADUATE

(MTE 262) Microprocessors and Digital (MTE 241) Computer Structures and Real-time systems

(MTE 320) Actuators & Power Electronics (MTE 360) Automatic Control Systems

(SYDE 575) Image Processing

(SYDE 372) Pattern Recognition

(SYDE 522) Machine Intelligence

(SYDE 552) Computational Neuroscience

#### **EXPERIENCE**

# Mechatronics (Robotics) Engineer with ex- FULL STACK ENGINEER | DATA SCIENCE @ ACERTA SYSTEMS

- Designed and built web apps, backend services, machine learning models and data processing pipelines during a 14 month stint as Employee #1
- Worked in Javascript, Python (scikit-learn), R(stats, dplyr), Go(fasthttp)
- Trained new employees in R and Python for data modelling and visualization
- Forward facing role included interactions with Fiat Chrysler engineers to scope out and deliver solutions for their data analytics

#### RESEARCH ASSOCIATE | DATA SCIENCE @ UNIV. OF WATERLOO

June 2016 - Dec 2016 | Waterloo, Canada

- Developed techniques for unsupervised and supervised anomaly detection in time series big data collected from automotive and aeronautical systems
- Mainly used R, Python, Apache Spark and LaTeX

#### FULL STACK ENGINEER | VIDEO STREAMING | OS X @ UBIQ, INC.

March 2015 - June 2015 | Waterloo, Canada

- Built an OS X application for streaming wirelessly to enterprise meeting rooms
- Improved streaming latency by 80% and worked in Objective-C, C, Cocoa and Xcode
- Provided customer support as well as on site product installations

#### **DIAGNOSTICS ENGINEER | HARDWARE TESTING** (a) ARISTA **NETWORKS**

May 2014 - December 2014 | Santa Clara, California

- Created software based hardware test automation of a new gigabit ethernet
- Collaborated with Hardware, Software and Bootloader teams to ensure project delivery

## **SOFTWARE DEVELOPER - R&D | AGILE | SCRUM** (a) TRAPEZE GROUP

Sep 2013 - Dec 2013 | Mississauga, Canada

- Built a dashboard to provide project managers insight into their code repository statistics for tracking usage and feature creep
- Used Java Servlets, Grails (MVC framework) and Javascript

# **PROJECTS**

#### TALON SEP 2015 - MARCH 2016 | TALONCO.GITHUB.IO

- Final year team design project where we built an add-on kit for delivery trucks that enables drone deliveries without massive capital requirements
- Responsible for Radio communications, flight controller tuning and web services

#### CROP YIELD PREDICTION FEB 2016 - MARCH 2016 | PROJECT REPO

- Used Neural Network architectures to predict crop yields in India from a dataset containing meteorological and geographical features
- Data was cleaned, modelled and visualized using R(dplyr, caret, ggplot2), LaTeX