

Vincent Widjaya

SEEKING FULL-TIME SOFTWARE ENGINEERING / DATA SCIENCE POSITIONS STARTING MID-JUNE 2020

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Education

University of Washington

Seattle, WA

B.S. IN INFORMATICS, DATA SCIENCE TRACK

Graduating June 2020

- Cumulative GPA: 3.64
- CSE 373 (Data Structures), CSE 414 (Database Systems), CSE 415 (Artificial Intelligence), CSE 446 (Machine Learning)
- INFO 441 (Back-end Development), INFO 340 (Front-end Development), INFO 370 (Core Data Science)

Work Experience

Zero One IT

Surabaya, Indonesia

SOFTWARE DEVELOPER INTERN

Jun 2018 - Aug 2018

- Developed multiple progressive web apps in LAMP stack, some in JavaScript with AJAX + PHP and others in Yii2 (MVC).
- Integrated Google's Maps JavaScript API for a staff attendance app to verify check-in location and prevent false attempts.
- Streamlined the work process for a real estate company's internal team by developing an app that allows them to record purchases, set up installment plans, and print required forms.

UBER

Jakarta, Indonesia

DATA SCIENTIST INTERN

Jul 2017 - Aug 2017

- Increased trip completion rates by up to 5% through analysis of recent trips to provide optimal driver search and dispatch parameters, utilizing multivariate linear regression and gradient descent.
- Increased average trip quality through analysis of trips suspected to have spoofed GPS data, detecting patterns of misconducting drivers while minimizing false positives through logistic regression.

Projects

Bill Splitter

Personal project

PROGRESSIVE WEB APP FOR USERS TO SPLIT BILLS AND SET UP VENMO PAYMENTS.

In-progress

- Written in NodeJS with React for front-end, Express for middleware and back-end.
- Utilized Google Cloud Vision API to detect captured or uploaded receipts.
- Implemented an algorithm to best parse the response from the Cloud Vision API into a set of line items.
- Stored receipt images in Google Cloud Storage, referenced by receipt id's saved in the primary MongoDB database.

ISAUW Pay

www.isauw.org/pay

PAYMENT SYSTEM PROGRESSIVE WEB APP FOR KERATON, AN ANNUAL EVENT OF THE INDONESIAN STUDENT ASSOCIATION AT UW

- Developed a LAMP-stack payment system featuring an online wallet and cashier portal, utilizing QR codes as the primary means of payment.
- Deployed on AWS during the event (Elastic Beanstalk with 4 EC2 load balancers, RDS MySQL, Route53, ACM).
- Implemented nested stored procedures with output parameters and explicit transactions to improve database performance and modularity of database environment.

Portfolio

vwidjaya.github.io

PERSONAL WEBSITE

In-progress

- Utilized the GatsbyJS framework for rapid production.
- Incorporated TravisCI for continuous integration and automatic building of production code on pushes to repo.

Part of Speech Tagging (NLP) and Location Tracking

CSE 415

ARTIFICIAL INTELLIGENCE FINAL PROJECT

- Achieved over 95% accuracy with the Forward and Viterbi algorithms to predict the parts of speech of words or sentences (NLTK data).
- Achieved over 70% accuracy with the Forward algorithm to predict a subject's location (UCI dataset on RSSI readings).

Skills

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| Programming | Python, Node.JS, PHP, HTML, CSS, Java, R, LaTeX, SQL |
| Frameworks | React, Gatsby, Express, Django, Yii2, Bootstrap |
| Tools & Services | AWS, Azure, Firebase, Spark, Git, Maven, JUnit |