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

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