Billy Halim

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Education

Bachelor of Science in Computer Science   December 2020
University of California, San Diego   GPA: 3.70
University of Minnesota, Twin Cities   GPA: 3.82

Associate of Science   June 2018
Shoreline Community College   GPA: 3.98

Work Experience

Software Engineer Intern at **Piper**   June 2020 – September 2020
- Simulated an end to end applicant tracking system using React.js and Firebase
- Created an automation on syncing applicant's, user's and interviewer's interview schedule
- Utilized nodemailer to enable email sending from the system to multiple applicants
- Created an interface to allow interviewer seeing applicant's complete profile with available time

Web Developer at **Information Theory and Applications Center**   December 2019 – January 2020
- Developed a system for the registration of ITA 2020 Workshop using React.js and Django
- Used Django Shell to perform data modification on current user's option
- Added new feature to enable administrator mailing workshop participants from the web interface
- Remodeled the interface of workshop statistics to allow user searching and user's option filtering

Software Engineer Intern at **Tokopedia**   May 2019 – September 2019
- Programmed a product migrating tool with Go to populate the staging site with production level's products
- Created a Slack Webhook for API request and response to detect the core problem of wrongly displayed ads
- Refactored the handler for A/B experiment to allow changes to be directly made by product manager
- Contained all the backend service into a Docker container and initiated integration with CircleCI

Research Experience

Web Developer at **UCSD's Language and Cognition Lab**   January 2020 – June 2020
- Architected, developed, and migrated several experiments into web application to improve accessibility
- Implemented firebase and php script to export experiment results as JSON file

Research Apprentice at UMN's Robotic Sensor Network Laboratory   February 2019 – May 2019
- Annotated sets of images with VGG Annotator to be the source data of the robot's AI system
- Exported training data files to an existing machine learning software for the apple picker robot

Prototyping Officer at UMN's Engineers Without Borders   October 2018 – January 2019
- Modified an existing circuit into an energy efficient one to increase efficiency by 6%
- Reduced approximately 10% of the production cost by calculating the minimal specs of the injera cooker

Project Experience

Influencer Database Application "Dorsey"   August 2020
Features: React Native, Python (Django), PostgreSQL, Docker, Digital Ocean

Sports Teammates Finding Website "Sports Teammates For U"   March 2020 – June 2020
Features: React, Python (Django), PostgreSQL, Docker, AWS

Pesticide Records Manager Website "Pesticide Tracker"   February 2019
Features: React, Firebase, Google Map API

Volunteer Searching Application "Where To?"   October 2018
Features: XML, Java, Firebase, Google Map API, Paypal API

Google Applied Skills Project   February 2019 – May 2019
Features: XML, Java