

# Billy Halim

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## Education

### B.S. in Computer Science

University of California, San Diego – *Honors: Provost Honors, Tau Sigma National Honor Society*

December 2020

GPA: 3.70

## Skills

**Languages:** HTML/CSS, Javascript, Python, Go

**Database:** MySQL, PostgreSQL, MongoDB

**Cloud Services:** Digital Ocean, AWS, Firebase

**Frameworks:** React.js, Node.js, Django

**DevOps:** GitHub, GitLab, CircleCI, Docker

**Methodologies:** Agile, Scrum, RESTful API

## Research Experience

### Boroditsky Lab - UCSD | Web Developer (San Diego, CA)

January 2020 – Present

- Designed a natural language experiment using **React** and **Firebase** which reached 100+ records within three days
- Developed a Twitter scraping algorithm to gather data for sentiment analysis experiment using **Python**
- Performed EDA, data cleaning, data visualization, and data analysis on experiment results using **Anaconda**
- Wrote a **Node.js** application to export data from Firebase to a JSON file for better accessibility

## Work Experience

### Piper | Software Engineer Intern (San Diego, CA)

June 2020 – September 2020

- Developed automated applicant tracking system using **React** and **Firebase** to eliminate 90% hiring process cycle
- Designed and translated applicant's scoring system page from **Figma** to the client-side interface
- Added mailing feature using nodemailer to allow recruiters to distribute recruiting phase results to multiple applicants
- Utilized Firebase cloud functions to create a REST API connecting client side with Firestore and Storage Bucket

### Information Theory and Applications Center | Web Developer (San Diego, CA)

December 2019 – January 2020

- Developed the registration system of ITA 2020 Workshop using **React** and **Django** to handle 5000+ participants
- Added 20+ participants' category in the web mailing system to allow a better reach for event administrator
- Altered database record and structure using Django Shell to grant exception status for honored presenters
- Revamped the workshop statistics interface to enable administrator searched statistics for specific groups

### Tokopedia | Software Engineer Intern (Jakarta, Indonesia)

May 2019 – September 2019

- Programmed a product migrating tool with **Go** to populate the staging area with selected production level products
- Integrated Slack Webhook for API request in binary resulting in detecting major bugs in wrongly displayed ads
- Refactored the handler for A/B experiment to allow changes to be directly made by product manager
- Contained and integrated all backend services into **Docker** container and **CircleCI** to increase deployment speed

## Project Experience

### Influencer Database Application "Dorsey" | [See here](#)

August 2020

- Aimed to provide business owners with the influencers' database for their product endorsement
- Used: React Native, Python (Django), PostgreSQL, Docker, Digital Ocean*

### Sports Teammates Finding Website "Sports Teammates For U" | [See here](#)

March 2020 – June 2020

- Connected people to gather and play sports that require large number of players
- Used: React, Python (Django), PostgreSQL, Docker, AWS*

### Pesticide Records Manager Website "Pesticide Tracker" | [See here](#)

February 2019

- Automated farmer's pesticide usage form in accordance with Chapter 18B.37 of Minnesota Statute
- Used: React, Firebase, Google Map API*

### Volunteer Searching Application "Where To?" | [See here](#)

October 2018

- Created a new model of providing volunteer opportunities for students in Minnesota
- Used: XML, Java, Firebase, Google Map API, Paypal API*