

# 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

## Work Experience

### UCSD's Language and Cognition Lab | Software Engineer (San Diego, CA)

January 2020 – Present

- Used **React** and **Firebase** to migrate offline experiments to web applications which increased results quantity by 90%
- Developed a **Node.js** program linked to **AWS** for automating the HIT creation process in Amazon Mechanical Turk
- Automated data extraction process from Firestore using **Node.js** which allowed data to be downloaded as JSON/CSV
- Wrote a Twitter scraping script using Tweepy in **Python** to gather 1000+ immigration-related tweets in one click

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

June 2020 – September 2020

- Created interview scheduling system using **React** and **Firebase** which synced the availability of 2+ parties
- Utilized cloud functions in **Firebase** for creating REST API to connect the website with Firestore and Storage Bucket
- Added mailing system feature using Nodemailer allowing recruiters to share assessment result from the application
- Designed the wireframe of applicant's scoring system interface with **Figma** to pre-visualize new features' UI/UX

### Qualcomm Institute | Software Engineer (San Diego, CA)

December 2019 – January 2020

- Developed registration system of ITA 2020 Workshop with **React** and **Python** (Django) to handle 5000+ attendees
- Led 2 engineers in revamping the event management system to delegate 30% work to the event administrator
- Altered database record and structure using Django Shell to grant exception status for special presenters
- Doubled participants' category in the backend system to better visualize different statistics from each category

### 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 with incoming API request to detect major bugs in wrongly displayed ads
- Contained and integrated all backend services into **Docker** container and **CircleCI** to increase deployment speed
- Refactored A/B experiment handler to optimize the flow of metric changes implementation by allowing product managers to directly applying desired testing without requiring the assist of software engineers

## 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*

## 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, CircleCI, Docker, Figma

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