

Billy Halim

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Education

B.S. in Computer Science	December 2020
University of California, San Diego	GPA: 3.70
<i>Honors: Provost Honors, Tau Sigma National Honor Society</i>	
University of Minnesota, Twin Cities	GPA: 3.82
<i>Honors: Dean's List, Tau Beta Pi, Tau Sigma National Honor Society, Golden Key International Honor Society</i>	
A.S. in Computer Science	June 2018
Shoreline Community College	GPA: 3.98
<i>Honors: President's List, Phi Theta Kappa Honor Society, International Student Scholarship Recipient</i>	

Teaching Experience

Tutoring Center – SCC Computer Science Tutor	March 2017 – March 2018
<ul style="list-style-type: none">Assisted students in algorithm and data structure classes through one-on-one interactionProvided mentorship in student's personal portfolio project	
Math Learning Center – SCC Math Tutor	March 2017 – May 2017
<ul style="list-style-type: none">Strengthened student's understanding in calculus, differential equation and linear algebra classesFacilitated student group's multivariable calculus discussion once a week	

Research Experience

Boroditsky Lab - UCSD Web Developer (San Diego, CA)	January 2020 – Present
<ul style="list-style-type: none">Designed a natural language experiment using React and Firestore which reached 100+ records within three daysDeveloped a Twitter scraping algorithm to gather data for sentiment analysis experiment using PythonPerformed EDA, data cleaning, data visualization, and data analysis on experiment results using AnacondaWrote a Node.js application to export data from Firestore to a JSON file for better accessibility	
Robotic Sensor Network Lab – UMN Research Apprentice (Minneapolis, MN)	February 2019 – May 2019
<ul style="list-style-type: none">Preprocessed 1000+ images with annotation to produce the training data of the apple picker robotCreated a script with Python to convert and clean datasets for better accessibility with the machine learning algorithm	
Engineers Without Borders – UMN Prototyping Officer (Minneapolis, MN)	October 2018 – January 2019
<ul style="list-style-type: none">Modified an existing circuit into an energy efficient one to increase efficiency by 6%Reduced production cost by 10% by calculating the minimal specs of the injera cooker	

Work Experience

Piper Software Engineer Intern (San Diego, CA)	June 2020 – September 2020
<ul style="list-style-type: none">Developed automated applicant tracking system using React and Firestore to eliminate 90% hiring process cycleAdded mailing feature using nodemailer to allow recruiters to distribute recruiting phase results to multiple applicantsConstructed a page displaying the results of applicant's scoring system to provide better quantitative evaluationsAutomated scheduling and rescheduling interview process for all parties to ensure no interview cancellationDesigned and translated applicant's scoring system page from Figma to the client-side interfaceUtilized Firestore 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
<ul style="list-style-type: none">Developed the registration system of ITA 2020 Workshop using React and Django to handle 5000+ participantsAdded 20+ participants' category in the web mailing system to allow a better reach for event administratorAltered database record and structure using Django Shell to grant exception status for honored presentersRevamped the workshop statistics interface to enable administrator searched statistics for specific groups	
Tokopedia Software Engineer Intern (Jakarta, Indonesia)	May 2019 – September 2019
<ul style="list-style-type: none">Programmed a product migrating tool with Go to populate the staging area with selected production level productsIntegrated 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

Forkaia | Software Engineer Intern (Irvine, CA)

April 2019 – June 2019

- Prototyped the new remodeled website design for Rise Capital
- Detected and fixed some glitches in the interface of Side Hustle

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

Minigames Library Project

September 2018 – December 2018

Features: Processing.js, p5.js

Toys For Kids Project

September 2017 – October 2017

Features: Solidworks

Leadership Experience

Indonesian Student Community President

May 2017 – May 2018

Led a group of 36 officers for events thorough the year. Events include creating an Indonesian sport competition, conducting several food fundraisings, organizing welcoming party, and hosting graduation party. Also established new system for recruiting future officers.

Volunteer Experience

Saman Dancer and Angklung Player | Indo Night 2019, PERMIAS Minnesota

Math Competition Grader | Mathcounts Competition, Minnesota Society of Professional Engineers

Competition Facilitator | Minnesota Science Bowl, Minnesota Academy of Science

Food Prepper and Distributor | Hands of the Hungry, Catholic Student United

Trainer and Facilitator | Super Saturday, Inner City Tennis

Food Truck Server | Balai Jajanan and Keraton Indonesian Festival, PERMIAS Seattle & ISAUW