

# Billy Kurniawan Halim

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## Education

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

## Teaching Experience

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

## Research Experience

<b>Web Developer at UCSD's Language and Cognition Lab</b>	January 2020 – Present
<ul style="list-style-type: none"><li>Architected, developed, and migrated several experiments into web application to improve accessibility</li><li>Implemented firebase and php script to export experiment results as JSON file</li></ul>	
<b>Research Apprentice at UMN's Robotic Sensor Network Laboratory</b>	February 2019 – May 2019
<ul style="list-style-type: none"><li>Annotated sets of images with VGG Annotator to be the source data of the robot's AI system</li><li>Exported training data files to an existing machine learning software for the apple picker robot</li></ul>	
<b>Prototyping Officer at UMN's Engineers Without Borders</b>	October 2018 – January 2019
<ul style="list-style-type: none"><li>Modified an existing circuit into an energy efficient one to increase efficiency by 6%</li><li>Reduced approximately 10% of the production cost by calculating the minimal specs of the injera cooker</li></ul>	

## Work Experience

<b>Software Engineer Intern at Piper</b>	June 2020 – September 2020
<ul style="list-style-type: none"><li>Simulated an end to end applicant tracking system using React.js and Firebase</li><li>Created an automation on syncing applicant's, user's and interviewer's interview schedule</li><li>Utilized nodemailer to enable email sending from the system to multiple applicants</li><li>Created an interface to allow interviewer seeing applicant's complete profile with available time</li></ul>	
<b>Web Developer at Information Theory and Applications Center</b>	December 2019 – January 2020
<ul style="list-style-type: none"><li>Developed a system for the registration of ITA 2020 Workshop using React.js and Django</li><li>Used Django Shell to perform data modification on current user's option</li><li>Added new feature to enable administrator mailing workshop participants from the web interface</li><li>Remodeled the interface of workshop statistics to allow user searching and user's option filtering</li></ul>	

**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

**Software Engineer Intern at Forkaia**

April 2019 – June 2019

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

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**Project Experience**

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**Influencer Database Application “Dorsey”**

August 2020

Helping business owners to find the right influencer for their product endorsement

*Features: React Native, Python (Django), PostgreSQL, Docker, Digital Ocean***Sports Teammates Finding Website “Sports Teammates For U”**

March 2020 – June 2020

Grouping people to perform sport activity that requires large number of players

*Features: React, Python (Django), PostgreSQL, Docker, AWS***Pesticide Records Manager Website “Pesticide Tracker”**

February 2019

Automating the filing of pesticide usage for farmers in Minnesota

*Features: React, Firebase, Google Map API***Volunteer Searching Application “Where To?”**

October 2018

Providing volunteer activities to improve social engagement

*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*

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**Leadership Experience**

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**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.

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**Volunteer Experience**

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**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