

Billy Kurniawan Halim

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EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

December 2020

University of California San Diego | Jacobs School of Engineering

GPA: -

Honors and Awards: -

University of Minnesota Twin Cities | College of Science and Engineering

GPA: 3.82

Honors and Awards: Tau Beta Pi, Tau Sigma National Honor Society, Golden Key International Honor Society, Dean's List

ASSOCIATE OF SCIENCE

June 2018

Shoreline Community College

GPA: 3.98

Honors and Awards: International Student Scholarship Recipient, Phi Theta Kappa Honor Society, President's List

SKILLS

ENTERPRISE LEVEL

: Go, YAML, Bash, Shell, Squarespace

WEB DEVELOPMENT

: HTML, CSS, JavaScript (Processing.js – p5.js – jQuery – React.js)

MOBILE APP DEVELOPMENT

: Java, XML, Android Studio

LANGUAGE & PLATFORM

: C, C++, Python, OCaml, SQL, MATLAB, Firebase Console, Arduino

GRAPHIC DESIGN

: Adobe Photoshop, Adobe Illustrator, Adobe Premiere, Adobe After Effect, Adobe Animate, Adobe Dreamweaver, Adobe XD, SolidWorks

OFFICE, DATABASE, STATISTICS

: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Access, FileMaker Pro, JMP Pro, R

WORK EXPERIENCE

SOFTWARE ENGINEER INTERN (BACKEND ENGINEER) | TopAds Tribe

May 2019 – September 2019

Tokopedia

Jakarta, Indonesia

- Programmed a product migrating tool to populate the staging environment with products from the production level
- Implemented a debugger feature in the Recommendation API to detect the core problem of wrongly displayed ads
- Refactored the handler for AB experiment to allow product manager to directly implement the desired test
- Dockerized all services in dashboard binary to allow integration with CircleCI

SOFTWARE ENGINEER INTERN (UI/UX DESIGNER) | Side Hustle & Rise Capital Team

April 2019 – June 2019

Forkaia

(Remote) Irvine, California

- Fixed existing bugs and remodeled the website of Rise Capital with Squarespace
- Designed the wireframe and generated the website of Side Hustle via Squarespace

RESEARCH APPRENTICE | Robotic Sensor Network Laboratory

February 2019 – May 2019

University of Minnesota – Twin Cities

Minneapolis, Minnesota

- Annotated sets of images VGG Image Annotator to be the data source of the robot's AI system
- Exported JSON files to an existing machine learning software for the apple picker robot

COMPUTER SCIENCE TUTOR | Tutoring Center

March 2017 – March 2018

Shoreline Community College

Shoreline, Washington

- Assisted students in computer science courses through one on one interaction
- Provided mentorship in student's computer science class projects

MATH TUTOR | Math Learning Center

March 2017 – May 2017

Shoreline Community College

Shoreline, Washington

- Strengthened student's understanding in calculus, differential equation and linear algebra classes
 - Facilitated student group's multivariable calculus discussion once a week
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PROJECT EXPERIENCE

PESTICIDE RECORDS MANAGER WEBSITE "PESTICIDE TRACKER" | MinneHack 2019

February 2019

- Designed the logo of the website using Adobe Photoshop & Illustrator
- Filtered, converted and input the acquired data to Firebase Console
- Collaborated with team members in designing the chemical page with React.js
- Remodeled the style of the Home page with CSS

VOLUNTEER SEARCHING APPLICATION “WHERE TO?” | ACM UMN Software Design Competition October 2018

- Designed the initial software’s graphic user interface with Adobe Illustrator
- Programmed and synchronized the home page and organization page to the application in Android Studio
- Implemented PayPal API to allow the user donating money to the organization
- Debugged a problem where the menu drawer does not overlap the menu page with Java

BILLYKURNIAWANH.GITHUB.IO | HTML, CSS, JavaScript February 2019 – Present

- Designed personal website to showcase portfolio

GOOGLE APPLIED SKILLS PROJECT | XML, Java February 2019 – May 2019

- Implemented algorithms and data structures to create mobile applications

100 MINIGAMES PROJECT | Java, Python, C++, MATLAB, HTML, CSS, JavaScript September 2018 – May 2019

- Created user interface for games that require player’s interaction

MATRIX ALGORITHM | MATLAB September 2018 – December 2018

- Broken down existing algorithms for matrix’s RREF, LU & QR Decomposition

SAFE TOYS FOR K-12 CHILDREN | SolidWorks September 2017 – October 2017

- Prototyped the design of catapult and toy train that are safe for kids

RESEARCH EXPERIENCE

ELECTRIC INJERA COOKER RESEARCH | Prototyping and Testing Assistant October 2018 – January 2019 *Engineers Without Borders Research Division* Minneapolis, Minnesota

- 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

LEADERSHIP EXPERIENCE

INDONESIAN STUDENT COMMUNITY PRESIDENT | Shoreline Community College 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 establishing new system for recruiting future officers.

VOLUNTEER EXPERIENCE

SAMAN DANCER AND ANGKLUNG PLAYER | Indo Night 2019, PERMIAS Minnesota March 2019

MATH COMPETITON GRADER | Mathcounts Competition, Minnesota Society of Professional Engineers February 2019

COMPETITION FACILLITATOR | MN Science Bowl, Minnesota Academy of Science January 2019

FOOD PREPPER AND DISTRIBUTOR | Hands of the Hungry, Catholic Student United October 2018

TRAINER AND FACILLITATOR | Super Saturday, Inner City Tennis October 2018

FOOD TRUCK SERVER | Balai Jajanan and Keraton Indonesian Festival, PERMIAS Seattle & ISAUW April 2017 & May 2017

CARETAKER OF DISABLED CHILDREN | Social Service Week, Bhakti Asih Foster Care May 2016

AFFILIATED GROUPS

ASSOCIATION FOR COMPUTING MACHINERY January 2019 – May 2019

UMN CLOUD COMPUTING GROUP January 2019 – May 2019

UMN APPLICATION DEVELOPER GROUP January 2019 – May 2019

INNOVATIVE ENGINEERS January 2019 – May 2019

PERMIAS MINNESOTA October 2018 – May 2019

TESLA WORKS October 2018 – December 2018

MUDIKA SEATTLE May 2017 – May 2018

PROFILE

GITHUB | github.com/billykurniawanh

LINKEDIN | [linkedin.com/in/billykurniawanhalim](https://www.linkedin.com/in/billykurniawanhalim)

WEBSITE | billykurniawanh.github.io

HANDSHAKE | app.joinhandshake.com/users/12325281

INTEREST

Basketball, Los Angeles Lakers, Chess, Hiking, Harry Potter, Marvel’s Universe, Cooking, Reading, Horror, Thriller, Gaming
