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

WEB DEVELOPMENT	**:** HTML (Bootstrap), CSS (SASS), JavaScript (Processing.js – p5.js – jQuery – React.js)
MOBILE APP DEVELOPMENT	**:** XML, Java, Android Studio
GRAPHIC DESIGN	**:** Adobe Photoshop, Adobe Illustrator, Adobe Premiere, Adobe After Effect, Adobe Animate, Adobe Dreamweaver, Adobe XD, SolidWorks
LANGUAGE & PLATFORM	**:** C, C++, Python, Go, OCaml, SQL, Bash, Shell, YAML, MATLAB, Firebase Console, Squarespace, Arduino
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 products migrator using Go to populate the staging environment with real products
- Implemented a debugger feature in the Recommendation API to detect the core problem of mis-ads
- Refactored the handler for AB experiment to allow product manager to directly implement the desired test
- Contained all services in a binary to a single docker container in order to improve the staging deployment time by 50%

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 used Squarespace to generate the website of Side Hustle

RESEARCH APPRENTICE | Robotic Sensor Network Laboratory   February 2019 – May 2019
University of Minnesota – Twin Cities   Minneapolis, Minnesota
- Annotated sets of images for the input of the robot's AI with VGG Image Annotator
- 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

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 donate 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
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