

Bryan Ko

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EDUCATION

UC SANTA CRUZ

BS IN COMPUTER SCIENCE

Expected June 2018 | Santa Cruz, CA

Cum. GPA: 3.23/4.00

SKILLS

PROGRAMMING LANGUAGES

Java , Python , Visual Basic

HTML , CSS , Javascript

SQL/NoSQL , PHP

OPERATING SYSTEMS

UNIX

macOS

Windows 10

Linux (Ubuntu)

APPLICATIONS

Git

Putty/Terminal

Node.js

IntelliJ/Eclipse/Spyder

Android Studio

LaTeX

Processing

Visual Studio

COURSEWORK

COMPUTER SCIENCE

Programming in Java

Intermediate Programming

Data Structures

Algorithms and Abstract Data Types

Analysis of Algorithms

Computational Models

Fundamentals of Compiler Design I

Operating Systems

Mobile Applications

Database System I

Comparative Programming Languages

Web Applications

Software Design Project I/II/III

Artificial Intelligence

COMPUTER ENGINEERING

Applied Discrete Mathematics

Computer Systems & Assembly Language

Computer Architecture

Probability and Statistic for Engineers

MATH

Calculus I/II/III

Linear Algebra

EXPERIENCE

BLUEJAY MOBILE HEALTH | WEB DEVELOPER INTERN

December 2016 - January 2017 | Pleasanton, CA

Developing an easier way for therapist and patients to communicate.

- Connected MySQL tables to HTML tables using PHP
- Used ThinkPHP framework (MVC) on AWS server
- Documented issues and commented code to pass back to the company
- Updated document containing the company's database in flowcharts

BLUEJAY MOBILE HEALTH | QA ENGINEER INTERN

August 2016 - September 2016 | Pleasanton, CA

- Black box tested Android, IOS, and web application
- Coded Unix time conversion to PDT then back to Unix time in PHP
- Created document containing the company's database in flowcharts
- Made a Python script to help write some repetitive SQL code

PROJECTS

AMAZON IOT CONSOLE | SCRUM MASTER/DEVELOPER

January 2018 - Present

Creating a MERN stack web application that allows IoT device users and developers to easily gather and display AWS IoT data.

- Communicate with IoT devices using AWS IoT console
- Define format of the data the IoT device sends
- Create data visualization

FOOD NOW | SCRUM MASTER/DEVELOPER

January 2018 - March 2018

Creating a MERN stack web application that that will take a user's input and suggest foods based on the parameters

- Pull Yelp Fusion API through Node.js
- Create an algorithm to manipulate Yelp data based on user's input
- Set up back-end database and server

WELP | PROJECT OWNER/DEVELOPER

October 2017 - December 2017

Developed an Android recommendation application that takes current and future weather and suggest things to do based on time.

- Bundled data from one activity to another
- Created a simple algorithm that gives suggestion based on the category chosen
- Pulled Yelp Fusion and Dark Sky API

FAM | PROJECT OWNER/DEVELOPER

April 2017 - June 2017

Developed a MEAN stack web application to get a group of friends to coordinate and plan activities to do near the user.

- Used Angular Google Maps
- Stored user input and display inputted data on the map
- Hosted web application on AWS server running Bitnami

VOLUNTEER WORK

INTERACT CLUB (DVHS) | WEBMASTER

August 2012 - June 2013

- Redesigned web page using Google Sites to make the UI cleaner and easier to navigate
- Updated content of web page frequently when new volunteer work is found
- Led volunteers at events