

JARED VITUG

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Diligent Computer Engineering graduate from the University of California-San Diego, with 2+ years of work experience. Aiming to transform real-world problems into workable code while bringing new ideas to life; a combination of innovative design and pragmatic implementation. Frequently praised as adaptable by my peers, I can be relied upon to help your company achieve its goals.

WORK EXPERIENCE

Lead Barista

04/2018 to 03/2020

Peet's Coffee & Tea

La Jolla, CA

- Interviewed applicants and trained new hires in becoming familiar with the craft of brewing, tasting, and serving specialty coffee in a fast-paced environment
- Oversaw day-to-day operations and executed promotions
- Ensured the accuracy, completion, and reconciliation of all financial transactions
- Maintained equipment and ordered/stocked new inventory

PROJECTS

Digital Sportsbook (08/2020 – Present)

<https://www.tugvada.com>

- Created web app where users create accounts and keep track of sports bets placed against other users
- Wrote PHP and MySQL scripts to create and verify accounts against current users in database
- Display current user's active bets in html table using PHP and MySQL, as well as manage the server and database

Nachos Operating System (04/2020 – 06/2020)

https://github.com/jevitug/nachos_OS

- Develop threading, system calls, and multithreading support for the Nachos Operating System in C and Java
- Implement demand paging for physical memory management for Nachos

Checkers Bot (01/2020 – 03/2020)

<https://github.com/jevitug/assignment5-checkers-teamcheck>

- Develop a checkers-playing artificial intelligence that scans the board then plays the best available move
- Use inversion of control design pattern to design the Player object (C++) using pre-existing methods

Data Analytics Website (01/2020 – 03/2020)

<https://github.com/jevitug/Data-Analytics-Site>

- Create a multi-page site that sends user data (mouse clicks, time spent on page) to Firebase database
- Assign unique user cookies and sessions cookies to track individual users and individual sessions on site
- Visualize user data by retrieving from database and displaying using charts and grids (Google API)

Christmas Wishlist Website (09/2019 – 12/2019)

https://github.com/jevitug/Wishlist_Site

- Fun and interactive website that allows users to create their own unique holiday gift wish list
- Written using HTML5, CSS, and JavaScript to GET and POST wish list data to class database

Simple Three Program Processor (09/2019 – 12/2019)

https://github.com/jevitug/Micro_Processor

- Create a three-program processor in System Verilog
- Develop custom Instruction Set for the processor and convert three programs to ISA
- Develop all processor parts including Instruction Rom, Control Unit, Program Counter, ALU, etc.

IoT Weather Sensors (04/2019 – 06/2019)

- Programmed and deployed sensors across campus that registered measurements of temperature and humidity
- Embedded sensors with Python API to send weather data to a MySQL database
- Used Google Maps APIs to create website that visualized sensor locations with pins and displayed charts of data over last 7 days
- Written using Arduino, Python, HTML, CSS, and JavaScript

Finance Tracking Android App (09/2018 – 12/2018)

<https://github.com/jevitug/BMSRepo>

- Allows users to create and keep track of weekly or monthly budgets – great tool to begin personal finance
- Design the statistics page of the application to display user's financial data in color coded graphs and charts for readability
- Written using XML and Android Studio

EDUCATION

University of California, San Diego

Bachelor's

Computer Engineering, B.S.

La Jolla, CA

09/2015 to 06/2020

SKILLS

Languages: ARM Assembly, C/C++, CSS, HTML, Java, JavaScript, MATLAB, PHP, Python, SQL, System Verilog, Verilog

Tools: Apache, Firebase, Git, IDEs (Visual Studio, Vim, Eclipse), MySQL

Subjects: Mobile Development, Web Client Languages, IoT, Digital Design, Linux, Operating Systems

RELEVANT COURSEWORK

Object-Oriented Design | Advanced Data Structures | Circuits & Systems | Design and Analysis of Algorithms | Components and Circuits Laboratory | Software Engineering | Computer Operating Systems | Components and Design Techniques for Digital Systems | Engineering Probability and Statistics | Probability and Random Processes | Computer Architecture | Web Client Languages | Web Services | Online Database Analytics Applications | Computer Graphics