**Jared E. Vitug**

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**EDUCATION**

**University of California, San Diego La Jolla, CA**

B.S. Computer Engineering, Graduated: June 2020 Sep 2015 – June 2020

Relevant Courses: 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

**WORK EXPERIENCE**

**Lead Barista at Peet’s Coffee La Jolla, CA**

* Provided staff with coordination and supervision, interviewed applicants, trained new hires April 2018 – March 2020
* Handled cash flow, execution of promotions, equipment maintenance, and control of product inventory

**Sales Associate at Abercrombie & Fitch Vacaville, CA**

* Drove sales through upselling products based on customer’s current clothing and desired attire June 2015 - September 2015
* Thoroughly learned the company’s product offerings and contributed to an increase in monthly sales

**PROJECTS**

**Betting Website https://www.tugvada.com**

* Created web app where users create accounts and keep track of sports bets placed against other users August 2020
* 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** [**https://github.com/jevitug/nachos\_OS**](https://github.com/jevitug/nachos_OS)

* Develop threading, system calls, and multithreading support for the Nachos Operating System in C and Java April 2020
* Implement demand paging for physical memory management for Nachos

**Checkers Bot** [**https://github.com/jevitug/assignment5-checkers-teamcheck**](https://github.com/jevitug/assignment5-checkers-teamcheck)

* Develop a working checkers playing artificial intelligence that scans the board and picks the best available move March 2020
* Use inversion of control design pattern to design the Player object (C++) using pre-existing methods

**Data Analytics Website 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 March 2020
* 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** [**https://github.com/jevitug/Wishlist\_Site**](https://github.com/jevitug/Wishlist_Site)

* Fun and interactive website that allows users to create their own unique holiday gift wish list December 2019
* Written using HTML5, CSS, and JavaScript to GET and POST wish list data to class database

**Simple Three Program Processor** [**https://github.com/jevitug/Micro\_Processor**](https://github.com/jevitug/Micro_Processor)

* Create a three-program processor in System Verilog December 2019
* 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.

**Finance Tracking Android App** [**https://github.com/jevitug/BMSRepo**](https://github.com/jevitug/BMSRepo)

* Allows users to create and keep track of weekly or monthly budgets – great tool to begin personal finance December 2018
* 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

**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