

Jared E. Vitug

(707) 365-4827 | jaredevitug@gmail.com | <https://github.com/jevitug>
<https://www.linkedin.com/in/jared-vitug-9655b3191>

EDUCATION

University of California, San Diego

B.S. Computer Engineering, Graduated: June 2020

La Jolla, CA

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

April 2018 – March 2020

- Provided staff with coordination and supervision, interviewed applicants, trained new hires
- Handled cash flow, execution of promotions, equipment maintenance, and control of product inventory

Sales Associate at Abercrombie & Fitch

Vacaville, CA

June 2015 - September 2015

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

PROJECTS

Betting Website

<https://www.tugvada.com>

August 2020

- 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

https://github.com/jevitug/nachos_OS

April 2020

- 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

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

March 2020

- Develop a working checkers playing artificial intelligence that scans the board and picks the best available move
- 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>

March 2020

- 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

https://github.com/jevitug/Wishlist_Site

December 2019

- 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

https://github.com/jevitug/Micro_Processor

December 2019

- 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.

Finance Tracking Android App

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

December 2018

- 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

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