ABHIMANYU PATEL

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SUMMARY

- Manage and fix required code using SAPUI5 framework to help improve the web applications
- Proven track record in efficiently creating schematics to improve hardware design
- Professional with strong technical and analytical skills

EDUCATION

UC San Diego — Aug. 2015 to June 2018
B.S., Electrical Engineering

EMPLOYMENT

Infosys Ltd. — Palo Alto, CA
Associate Software Engineer — July 2018 to Current

Client: Pacific Gas & Electric

Tax Rate Enhancement:

- Developed custom SAP UI5 solution to facilitate the required tax rate changes that can be controlled only by designated employees and update all respective tables in back-end.
- Developed a module using JavaScript and HTML5 where contents will be displayed according to user assigned roles.
- Used RESTful OData Service that presents data from backend to consume them in UI5 application.
- Used ABAP repository for version control.

Smart Table Enhancement:

- Added a smart table functionality for each screen in the application following the MVC architecture.
- Used the "sap.ui.table" library to make the visibility of columns dynamic.
- Optimized User Interface using JavaScript for multiple checkbox selection compared to the one at a time.
- Document artifacts to ensure correct output of the product along with code modifications as required.
- Collaborate with the development as well as support team to overcome the flaws encountered in maintenance of the application following SDLC as well as Agile methodology.

Psemi Corporation — San Diego, CA
Intern, Reliability Engineering — Dec. 2017 to Mar. 2018

- Create, set-up, and debug Reliability HTOL and HAST bias test circuitry
- Help with design of reliability test boards, motherboards and related hardware
- Work with the Incal burn-in system for an integration of inspire software to assist for hardware testbenches
- Assist senior engineers in testing and debugging of semiconductor components using oscilloscopes, power meters and other necessary lab equipments
- Draw schematics for the HTOL and HAST bias test circuitry using OrCAD Capture CIS Allegro

PROJECTS

Bitcoin Hashing, Senior Digital Design Project — Mar. 2018 to June 2018

- Implemented code for developing secure hash output for a set number of words in Altera Quartus software
- Programmed a simplified bitcoin hashing program with the help of SHA256 algorithm using system verilog
- Created sequential as well as parallel design for better area*delay as well as only delay results

Data Analysis, Senior Class Project — Jan. 2018 to Mar. 2018
https://github.com/abhpat/ECE-180-Final-Project

- Helped to achieve clean, usable data in python to use it further for regression model to see correlation between highschool and elementary school performances
- Execute code using several data analysis python libraries like numpy, panda, etc. to achieve least erroneous results
- Awarded the second best overall score in the class for the project

GPS Algorithm based on Least Squares — Sept. 2017 to Dec. 2017

- Utilized the steepest Gradient descent as well as Gauss-Newton method to find the minimum error in position with respect to the actual value.
- Used the above mentioned methods to rectify the error in the measurement called "pseudorange" and get an accurate value.
- Developed the GPS algorithm with the aforementioned methods using MATLAB software with the given data and made comparison plots to show the position accuracy.
- After implementing both the methods for optimization of the position, Gauss-Newton method gave better results for the error in position.

Bar Assist, Arduino controlled Smart Coaster (IoT) — Apr. 2016

- Constructed a smart coaster at a hardware hackathon organized by IEEE and HKN at UC San Diego
- Worked on the software development as well as hardware integration of the pressure & temperature sensor
- The device prototype was designed and built within 24 hours and had the following features:
- Senses the temperature and sends notifications over Bluetooth to the android application based on the configured parameters
- Measures the weight of the glass in order to determine the need for a refill and send notifications over Bluetooth to the android application

SKILLS

PROGRAMMING LANGUAGES: HTML5, CSS3, JavaScript, AJAX Techniques, SAP ABAP, MySQL, Python, Matlab, C, C++, Java, System Verilog
SOFTWARE TOOLS: SAP UI5, OrCAD, Allegro, Pspice, Arduino IDE, Xilinx, Simulink, Eclipse IDE, Machine Learning Algorithms, SAP Web IDE
HARDWARE: BreadBoards, Arduino and Basys Boards, Function Generators, Oscilloscopes, DMMs, Power Meters, Logic Analyzers

AWARDS

Academic Achievement

- Dean's Honors list recipient (Winter 2016, Spring 2015, Fall 2014, Spring 2014)
- Second Place winner, IEEE UC San Diego hardware engineering hackathon (Spring 2016)
- Academic achievement award, EOPS, Norco College (Fall 2014)

ACTIVITIES

STEM Scholars program
Participant and Member, Norco College (Spring 2015, Fall 2014)