Sanket Jain

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EXPERIENCE

Contentstack – Front-End Development Intern — June 2020 - Present

- Working on UI development for a content management system product
- Designing reusable functional components and page wrappers using HTML and ReactJS
- Creating JavaScript helper modules for data manipulation and presentation on client side
- Interfacing front-end with back end using Rest API and state-management using Redux
- Writing test cases forJS code using tools like Jest and Enzyme
- Maintaining project version control using Git and GitHub and tracking project progress and objectives on JIRA

Stevens Institute of Technology – Research Assistant — Aug 2019 – May 2020

- Collaborating with senior PhD student on research in object localization and robotics
- Wrote firmware code for interfacing and operating electromechanical modules with on-device microcontroller modules
- Worked on embedded systems application protocols such as RF, I2C, UART, Bluetooth and IoT protocols such as REST and MQTT
- Kept track of project development, team contributions, inventory of projects and documentation

Acuradyne Medical Systems – Embedded Systems Engineering Intern — Dec 2018 - May 2019

- Researched and studied applications of electronics and embedded systems in healthcare and lifestyle
- Designed firmware code for Atmel AVR microcontroller-based devices
- Produced digital system processing implementation on TI ARM microprocessor boards interfaced with biological sensors

PROJECTS

Fonebooc - https://fonebooc.sanketjain.me/ — June 2020

- Built a contacts management web application using HTML & ReactJS
- Worked with asynchronous functions, interfacing front end with Google Firebase's Real Time Database using Rest API
- Implemented authorization and access control on app using Firebase Authentication service
- Maintained overall state-management ofapplication using Redux Saga middleware
- Drew Rich Text Editor components for contacts' description using RTE libraries such as Slate & Quill
- Designed user interface with Bootstrap and SCSS

Smart Kitchen Smoke Detector (DragonHacks 2020) — Feb 2020

- Established communication between an Arduino board to internet using Ethernet shield
- Connected several Arduino modules to a Raspberry Pi acting as a local server using Bluetooth modules
- Built a web application on Google App Engine using JavaScript to accept incoming HTTP requests
- Configured app to normalize data received from data and push data to a Google Sheet with timestamps for logging

Advanced Audio Synthesizer with Effects (Dwarkadas J College of Engineering) — Aug 2017

- Led a team of 10 to build a hybrid audio synthesizer consisting of analog and digital elements
- Created software synthesizer application on Python capable of generating audio based on wave functions
- Interfaced software with a music keyboard using Musical Instrument Digital Interface (MIDI) control signals, through USB
- Designed GUI for synth software using Python tools such as Tkinter

EDUCATION

Stevens Institute of Technology, Hoboken, NJ — Aug 2019 - Dec 2020
Master of Science in Computer Engineering: GPA: 3.75/4

Dwarkadas J Sanghvi College of Engineering, Mumbai, India — Aug 2014 - May 2018
Bachelor of Engineering in Electronics and Telecommunication

SKILLS

Programming C, C++, Python, MATLAB
Web & Networking: HTML/CSS, JavaScript, TypeScript, AngularJS, ReactJS, NodeJS, ExpressJS, RestAPI, GraphQL, Jest, Enzyme, SQL
OS: Windows, Linux (Ubuntu, Raspbian, WSL)
Tools: Google App Engine, Firebase, AWS, Git, JIRA, Real Time Operating Systems (RTOS)
Electronics: Microcontrollers (AVR, STM), Arduino, Raspberry Pi, data communication (SPI, I2C, UART, USB, Bluetooth, Wi-Fi, RF)

ACHIEVEMENTS

- Won at DragonHacks 2020 Hackathon: Second Place (Silver Medal), MLH – Best use of Google Cloud, Best Hardware Hack
- Completed Udemy's AWS Certified Cloud Practitioner Course
- Published technical paper in tech magazine DJ SPARK 2018; ISBN: 978-93-86724-75-5