Siddharth Patel

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EDUCATION

Purdue University | B.S. in Computer Science | GPA: 3.83

Jan 2016 – Dec 2018

Related Coursework: Data Structures & Algorithms | Systems Programming | Design & Analysis of Algorithms | Operating Systems | Web App Development | (Spring'18): Machine Learning & Data Mining, Compilers
 Rutgers University | B.S. in Computer Science | GPA: 3.68
 Jan 2014 - Dec 2015

WORK EXPERIENCE

Software Engineering Intern

PayPal

Purdue University

May 2018 - Aug 2018

Accepted Software Engineering Intern Position at PayPal for Summer 2018

Teaching Assistant

Jan 2017 – Present

CS 251-Algorithms and Data Structures, CS 252-Systems Programming: Lab mentor and grader for course

Software Verification Engineer

Delphi

Aug 2016 - Nov 2016

- Developed plugins with a toolset that monitored and sent CAN serial messages through USB ports
- Verified message requirements from the Product Definition Specification

INDEPENDENT PROJECTS

- 1) Itinerate (ongoing) | HTML, CSS, JavaScript, Node.js, Vue.js
 - Developed a **web application** from scratch that allows users to plan their vacations by simply providing budget, origin, departure and return dates.
 - Used **Amadeus, Google Maps, Google Places** and **Yelp APIs** to create detailed itineraries providing flight details, places to stay, eat and things to do around during your stay along with prices and reviews for all.
- 2) Chorus | HTML, CSS, JavaScript, Flask, Python
 - Developed a **web application** that allows people to vote on next song to be played. Using Spotify and Facebook auth, we get user's playlist and relieve the DJ stress of selecting songs.
 - Designed backend architecture for the application using Flask and used Spotify APIs.
- 3) Simple File System for UNIX | C, FUSE
 - Implemented driver for file system in virtual drive on UNIX, to be used as filesystem in user-space (FUSE).
 This filesystem mounts a regular directory onto a mount point to appear as regular filesystem where one can read/write/create files, directories, symbolic links and hard links.
- 4) Simplified Linux Shell | C, C++, LEX, YACC
 - Implemented scanner and parser for the shell with LEX and YACC.
 - Implemented simplified Linux shell from scratch that provides similar functionality as Bash, like, **IO** redirection, execution of simple commands, file redirection.
- 5) Web Server | C, C++
 - Developed a web server application which users can use to host their website on any computer using different concurrency modes. Learnt about HTTP requests, socket programming and concurrency modes.
- 6) Burrows-Wheeler | Java
 - Developed an application using Burrows-Wheeler data compression algorithm to compress files. The
 implementation reduces compression size by a factor of 3 as compared to PKZIP and gzip.

SKILLS AND TECHNOLOGIES

Java, C, Python, Flask, Shell, x86 Assembly, ARM, Git, HTML, CSS, JavaScript, Node.js, Vue.js, Scala (beginner)