VARUN D. PATEL

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EDUCATION

The Pennsylvania State University– University Park, PA
B.S. Computer Science; Minor: Mathematics

WORK EXPERIENCE / PROJECTS

verve3io - herd (Personal Project: iOS Event Management App)
iOS Developer   August 2015 – Present
- Developing an iOS Application to be utilized to streamline ticketing process for an event (QR-Codes as Tickets)
- Utilizing Mapbox iOS SDK
- Utilizing Parse as Backend
- Utilizing Swift to develop App

The Pennsylvania State University – University Park, PA
Software Developer   Jan 2015 – May 2015
CSE-PASS (Systems / Back-end team) [Client-Server Model]
- Led a group of 5 peers.
- Worked on Application that allows Distance Education Students to submit programming assignments online and get instant feedback(stylecheck errors, output correctness, compilation errors) (Java, Bash, PHP).
- Developed queue to run workloads requested by client to be processed on the server (server-side systems code)(Bash/PHP).
- Developed and refactored Client-Side code to optimize (Java).
- Refactored structure of server-side code for better design (Bash/PHP).

IBM – Las Vegas, NV
Software Engineering Intern   July 2014 – Dec 2014
TRIRIGA team
- Developed utility to automate the deployment of TRIRIGA onto application servers. (Java/ Bash Scripts).
- Developed utility to automate publishing of the latest TRIRIGA build (upgrade server) (Java/ Bash Scripts/Python).
- Developed utility to import / export Oracle databases (Bash Scripts).
- Set up continuous delivery environments to be used by QA for quick-fix defect testing. (IBM SCO, CloudStack).
- Built linux servers (RHEL 7).
- Developed Bash Scripts to meet pre-install criteria (on RHEL 7) (modification of kernel-parameters) to install Oracle Database 12c.
- Developed Automation Library utilizing Automation Framework 2.0 for QA testers with minimal development background (Java).
- Worked / Resolved on Automation Framework 2.0 defects (Java).

IBM – San Ramon, CA
Software Engineering Intern   Jan 2014 – July 2014
TRIRIGA team
- Worked on Integrated Workplace Management Systems.
- Developed Automation Framework (Automation Framework 2.0) used for QA regression testing (Java/Selenium API).
- Developed regression tests utilizing Automation Framework (Java / Selenium API).
- Developed test scripts for configuring and running tests on IWMS, deployed in development cycle (Java).
- Worked on / Resolved issues reported via test script analyses [Automation Framework defects] (Java).
- Worked with Java, Bash/Batch scripting languages.

HACKATHONS / HONORS & AWARDS

LA HACKS (Los Angeles Hackathon at UCLA)
Project Name: Mystic Army - (Demo of game: http://lahacks.challengepost.com/submissions/22781-mystic-army)   April 2014
- Developed a turn-based game for iOS in 36 hours
- Utilized Sprite Kit to develop game (Objective C Framework)
- Developed back end & AI for Mystic Army
- Worked with a group of 3 (2 developers & 1 artist) [team member info available upon request]

CODE PSU (PSU Hackathon) - 2nd Place
Team Members: (3) [team member info available upon request]   Feb 2013
- 2nd Place in the Intermediate Tier with a group of 3.
- ICPC-style programming competition hosted by the Penn State ACM and Penn State AWC. (http://acm.psu.edu/codepsu)
- Used C++ and Java to solve problems.

ORGANIZATIONS

A.C.M. - Association for Computing Machinery   Jan 2013- Present
Active Member
- Recognized by A.C.M. at The Pennsylvania State University as the most Active member for the Spring 2013 Semester.

ANALYTICAL PROJECTS

APPLICATION-SPACE DEVICE DRIVER   Dec 2013
- Developed an operating system (linux) interface using C that read and wrote buffered data for a virtual storage device.
- Implemented the device driver to use network connection to send and receive commands.

NUMERICAL ANALYSIS & COMPUTATION   Sept 2013
- *Random Walks & Financial Option Pricing*
  1. Analyzed the correlation of randomly generated walks with stock prices.
  2. Developed a model using Matlab to price a European call option using a random walk. (Monte-Carlo method)
- *Interpolation & Images*
  1. Developed scripts in Matlab to mathematically analyze interpolation of images using Bilinear, Nearest-Neighbor, Linear, Cubic, and Spline Interpolations.