

# VARUN D. PATEL

<https://github.com/rainmaker490> || <http://rainmaker490.github.io> || <https://linkedin.com/in/rainmaker490>  
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551.580.1079

## EDUCATION

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

## WORK EXPERIENCE / PROJECTS

**Cisco** – San Jose, CA

### Software Engineer

January 2015 - Present

- iOS Developer && Android Developer
- Worked on an iPhone/iPad app to deliver live TV streaming to unmanaged devices
- Travelled to Israel for 3 weeks to work with international team (collaborating with multiple software engineers around the globe)
- Learning Android Development
- Utilized Objective C

**verve3io - Beto (Personal Project: iOS Event Management App )**

### Software Engineer (iOS Developer)

September 2015 – January 2016

- Developing an iOS Application to be utilized to streamline ticketing process for an event (QR-Codes as Tickets)
- Utilized Mapbox iOS SDK
- Utilized Parse as Backend
- Utilized Swift

**The Pennsylvania State University** – University Park, PA

### Software Engineer

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).
- Utilized Java, PHP, and Bash Scripts

**IBM** – Las Vegas, NV

### Software Development 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 Development 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).
- Utilized Java and Bash/Batch Scripts.

## HACKATHONS / HONORS & AWARDS

### HACK PSU (Penn State Hackathon at PSU) - 2nd Place

Project Name: Pulse- (Demo of game: <http://rainmaker490.github.io/pulse>)

November 2015

- Developed a tvOS App (for Apple TV), and an iPad/iPhone/iPod App
- Utilized Swift and Parse
- Developed back end & Controller for iPad/iPhone/iPod app
- Worked with a group of 3 (3 iOS developers) [team member info available upon request]

### 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.

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## COMPUTER SKILLS

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Significant amount of programming experience using :

- Objective C
- Swift
- Java
- C
- C++
- PHP
- OOP

## ORGANIZATIONS

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**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

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**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.