

# Ameya Hanamsagar

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## EDUCATION

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**University of Southern California, Los Angeles, CA** Jan. 2016 – Present  
Master of Science (M.S.) in Computer Science [GPA: 3.65 / 4.0] Expected Graduation Date: Dec. 2017

**Savitribai Phule Pune University (formerly, University of Pune), Pune, India** Aug. 2011– May 2015  
Bachelor of Engineering (B.E.) in Computer Engineering [Aggregate: 69.70%, First Class with Distinction]

## TECHNICAL SKILLS

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**Programming/Scripting:** Python, PHP, JavaScript

**Databases:** MySQL, MongoDB

**Other:** Git, Cisco IOS, jQuery, AngularJS, Node.js, Nginx

## EXPERIENCE

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**Research Intern – Student Worker** May 2016 – Present  
*Information Sciences Institute (USC/ISI), Marina Del Rey, CA*

- Used NLP techniques to segment, Part-of-Speech tag and extract grammar of a user's passwords and later transform them semantically.
- Developed a web-portal to scan emails using Gmail's OAuth, extract websites where a user might have a registered account and display them (using WebSockets).
- Currently conducting user-studies to study the relation between personality traits, risk perception and complexity of passwords across users in general population.

**Software Developer** Sep. 2015 – Nov. 2015  
*Coditas Technologies Pvt. Ltd., Pune, India*

- Part of a team that worked in the development of a fully-comprehensive network planning tool to design and analyze/plan Optical Transport Networks (OTN).
- Developed a library to track state changes in the network topology and provide core functionality to OTN components.
- Migrated several areas of the tool's front end into MVC architecture.

**Development Operations Engineer** Jun. 2015 – Aug. 2015  
*SudoSaints Infotech Pvt. Ltd., Pune, India*

- Worked on the development of applications for managing the registration, payment, cron jobs, etc. of about 1500 events per week.
- Implemented a queue using Node.js and MongoDB to handle all the application flows requiring delayed processing.
- Member of a team focused on Agile Software Development, Continuous integration, Version Control, Test Driven Development.

## ACADEMIC PROJECT

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**Detection and Resolution of Firewall Policy Anomalies** Oct. 2014 – Feb. 2015

- Developed a fully-featured tool in Python which detects the firewall policy anomalies in real-time distributed Cisco IOS based security devices and provides options to resolve them.
- Developed a module to detect the security devices and their corresponding linkages and plot the entire network topology using Python.
- Classified and detected anomalies in single and multi-interface devices

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Explore more @ <https://linkedin.com/in/ameyahanamsagar> | <https://github.com/ameyah> | <https://bitbucket.org/ameyah>