Aniket Panse

CONTACT

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EDUCATION

B.E (Hons) Computer Science, M.Sc (Hons) Mathematics — August 2009 - June 2014

BITS-Pilani, K.K.Birla Goa Campus

- Studied for two degrees under Dual Degree program.
- CGPA: 7.92

WORK EXPERIENCE

Amazon — July 2014 - Present

Software Development Engineer

- Re-architected a service that sends notifications to merchants and buyers over HTTP and email.
- Implemented the new design, using AspectJ to better modularize the codebase.
- Languages/Frameworks used: *Java (internal web framework, AspectJ)*
- Developed a web based platform to manage large configuration files (5000+ lines) written in a proprietary format.
- Implemented a parser and a reverse parser to convert these files to and from JSON, for easy manipulation.
- Implemented features such as persistence, editing and validating of the configurations.
- Languages/Frameworks used: *Python (Flask MVC framework)*

Google Summer of Code with The Honeynet Project — June 2013 - September 2013

Developer

- Worked on the Beeswarm honeytoken system, which uses a system of intelligent clients and honeypot servers to lure attackers.
- Implemented protocols such as FTP, SMTP, HTTP and VNC on the honeypot.
- Created automated "intelligent" clients capable of logging into the honeypot servers and executing actions similar to humans.
- Implemented parts of a web based interface to manage deployment of the honeypot clients and servers.
- Languages/Frameworks used: *Python (Flask MVC framework, Gevent for asynchronous IO)*
- GitHub Repository: https://github.com/honeynet/beeswarm

Hornet - SSH Honeypot — Feb 2014 - Present

Primary Contributor

- Designing and implementing an SSH honeypot that has support for configuring multiple "Virtual" hosts, each

with a separate sandboxed filesystem, and a separate user pool.
- Currently supports common Linux commands such as "echo", "ls", "ssh", etc.
- The honeypot closely emulates a real Linux shell.
- More information: https://github.com/czardoz/hornet
- Languages/Frameworks used: *Python (Gevent for asynchronous IO)*

netSkope Software India Pvt Ltd. July 2013 - July 2014

Intern

- Created a web based platform from scratch for streamlined, automated testing of a network based software system.
- Came up with a system of recording and replaying HTTP(s) traffic.
- Implemented features to automate component deployment, testing, and aggregation of test results.
- Created a system to forward command line logs to the web-ui, in real time.
- Languages/Frameworks used: *Python (Flask MVC framework, Gevent for asynchronous IO)*

PUBLICATIONS

IEEE-FISTS: Development of a Protocol for optimized parking space allocation using Mobile Ad-Hoc Networks (MANETs). This project was selected for presentation at the IEEE-FISTS conference 2011, in Vienna, and the abstract was published.

- Developed a simple model for parking space allocation, modelled on a stationary Ethernet network.
- Implemented the software modules which communicated with each other using the TCP/IP protocol.
- Language used: *Python*

ACADEMIC PROJECTS

Parking: An crowd-sourced android app to locate parking spaces nearby. This was an extension of the IEEE FISTS publication.

- Used the Google Maps API to show a map to the user with occupied parking spots marked on it.
- Implemented a simple PHP based website, which allows the Android app to communicate with a MySQL Database.
- **Mentor**: Ms. Shubhangi Gawali
- Languages Used: *Java, PHP, SQL*
- GitHub Repository: https://github.com/czardoz/parking-android

TECHNICAL SKILLS

- **Operating Systems**: Unix/Linux, Android
- **Languages**: Strong knowledge of Python, Java and C. Good knowledge of Javascript.
- **Web Technologies**: Strong knowledge of MVC Frameworks, such as Flask, Bottle.py in Python and express.js in Node.js. Familiar with RESTful API design and implementation.
- **Version Control**: Git, Mercurial