

Aniket Panse

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Work experience

Postman (API Tools)

June 2015 — Present

Software Engineer

- Lead developer & maintainer of Postman's CLI, Newman, which has 50K+ downloads each month (<https://www.npmjs.com/package/newman>)
- Worked on developing and finalizing the specification of the Postman Collection v2 format, which can be used for HTTP API definitions.
- Lead developer and maintainer of the Postman SDK, which is a Javascript SDK to help developers integrate with the Postman platform and services. (<http://github.com/postmanlabs/postman-collection>)
- Lead developer for Postman Runtime, which now powers Newman, Postman apps (Native as well as Chrome Extensions), and the upcoming Postman Monitoring service.
- Worked on various high-traffic services such as postman-echo.com, and the update server for Postman's app updates.
- Implemented a domain verification system, which allows users to add their custom domains, which can be used across our cloud services (it features periodic checking of domains, handling invalidation notifications, etc)
- Implemented an email service, which supports various sending backends (Sendgrid, SES, etc), and gathers basic analytics.
- Implemented an SSL proxy, which uses SNI to serve the correct certificate, and routes traffic to an appropriate upstream.
- Implemented various features in the Postman Apps, such as support for signing HTTP requests with AWSv4 algorithm, Hawk Authentication, secure sandbox for executing Javascript code, etc.
- Collaborated with the AWS API Gateway team to integrate Postman with API Gateway.
- Performed regular internal audits, in order to make best possible use of AWS resources.
- Technologies used: *JavaScript (Node.js, Electron, Chromium), (ESPrima, SailsJS, etc), AWS*

Amazon

July 2014 — March 2015

Software Development Engineer

- Re-architected a service that sends notifications to merchants and buyers over HTTP and email.
- Worked on various operational improvements, such as better logging, monitoring, etc
- Handled on-call rotations and emergency tickets.
- Worked on launch of Amazon External Payments in Japan, setting up the deployment stacks, deployment pipelines, etc.
- Implemented a parser and a reverse parser to convert config files to and from JSON, for easy manipulation and validation.

Google Summer of Code with The HoneyNet Project

June 2013 — September 2013

Developer

- Worked on the Beeswarm honeypot 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)*

Education

B.E (Hons) Computer Science, M.Sc
(Hons) Mathematics

August 2009 — August 2014

BITS-Pilani, K.K.Birla Goa Campus

- Studied for two degrees under Dual Degree program.
- CGPA: 7.94

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.

- 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:** Mr. Mangesh Bedekar
- 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, Javascript.
- **Web Technologies:** Strong knowledge of MVC Frameworks, such as Flask, Bottle.py in Python and express.js in Node.js. Strong knowledge of Web APIs, Microservices and Service-oriented-Architectures.
- **Version Control:** Git, Mercurial