

EDUCATION

Texas A&M University

May 2019

Master of Science in Computer Science - Incoming student

BITS Pilani

Aug 2014

*Master of Science (Honors) in Mathematics - 7.94/10**Bachelor of Engineering (Honors) in Computer Science - 7.94/10*

WORK EXPERIENCE

Instagram Software Engineer Intern (Graduate)

Menlo Park, CA

Jun 2018 – Aug 2018

- Improved the CPU efficiency of compute heavy services in Instagram Notifications
- Architected a service to aggregate and serve time data from various sources, such as request logs, which is used in the notification pipeline
- Updated existing services to serve dates in the user locale, instead of just English
- *Technologies: Python, Thrift, Django*

Postman Software Engineer

Bangalore, India

Jun 2015 – Jul 2017

- Headed the development and maintenance of 3 major open source Node.js projects:
 - Newman - Postman CLI with 100K+ downloads each month
 - Postman Runtime - Underlying engine which powers Postman App and Cloud services
 - Postman SDK - Javascript library to help developers integrate with Postman
- Coached a team of three, guiding them through technical and non-technical issues
- Overhauled the specification of the Postman Collection format, which can be used for HTTP API definitions, similar to OpenAPI/Swagger or RAML
- Worked on multiple user facing, high-traffic services such as postman-echo.com, and the update server for Postman's app updates, using Node.js
- Engineered a multi-layered secure sandbox for executing user provided Javascript code
- Architected a Node.js based domain hosting system and an SNI based reverse proxy, allowing users to host their domains in the Postman Cloud
- *Technologies: JavaScript (Node.js, Electron, Chromium), SailsJS, AWS*

Amazon Software Development Engineer

Bangalore, India

Jul 2014 – Mar 2015

- Executed the launch of Amazon External Payments in Japan, setting up the deployment stacks, pipelines and API services
- Overhauled a notification service, allowing it to handle 4 times more traffic
- Worked on various operational improvements such as better logging, monitoring and deployments
- Implemented a parser and a reverse parser to convert large config files in a proprietary format to and from JSON, for easy manipulation and validation
- *Technologies: Java (+AspectJ), Python, Javascript, AWS*

Google Summer of Code Developer

Remote

Jun 2013 – Sep 2013

- Worked on the Beeswarm IDS, which uses a system of intelligent clients, sessions (honeytokens) and honeypot servers to lure attackers
- Implemented protocols such as FTP, SMTP, HTTP and VNC on the honeypot
- Created automated intelligent clients capable of simulating human actions
- Designed a bootable image generation system, facilitating seamless deployment on servers and clients
- Implemented parts of a web based interface to manage deployment of the honeypot clients and servers
- *Technologies: Python*

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, Austria.

- Devised and implemented an algorithm for parking space allocation, upon a stationary Ethernet network