

## Education:

### Technische Universität Darmstadt, Darmstadt Germany

**Graduated – September 2015**

- **Major:** Distributed Software Systems (Masters)
- **Grade:** 2.0 - German Grading Scale (Overall)
- **Master Thesis at TU Darmstadt on “Honeypots” (Network Security)**
- **Academic Achievements:** Topped in courses Network Security and Location & Communication Networks

### Visvesvaraya Technological University, Bangalore India

**Graduated - June 2011**

- **Major:** Computer Science and Engineering (Bachelors)
- **Grade:** 70.00 % (Honors Degree)
- **Academic Achievements:** 2<sup>nd</sup> position in 7<sup>th</sup> and 8<sup>th</sup> semester; 2<sup>nd</sup> position in final year.

## Work Experience:

### acarda GmbH , Frankfurt am Main Germany

**May 2018 – Present**

- **Designation:** Senior Consultant, Head Of IT
- **Project:** acarda IT Infrastructure; IT Services
- **Description:** Accomplished a new rack, with new hardware which led to 80% performance in SaaS
  - Automated IT Processes leading to faster response and resolution
  - Restructured Infrastructure for Scalability, Availability and Disaster Recovery
  - Roadmaps and Vision for the IT in 2018-19 leading to overall growth of the company
  - Increased security infrastructure by introducing MFA and SSO, penetration tests
  - Improved monitoring and reduced Incident response time

### acarda GmbH , Frankfurt am Main Germany

**August 2017 – May 2018**

- **Designation:** Head of IT
- **Project:** Acarda LUX Datacenter, Market Data
- **Description:** Planning, Design, Budget, Maintenance of IT Infrastructure and Networks.
  - Implemented batching algorithm for Market data thereby increasing throughput by 70%
  - DevOps
  - Incidents monitoring and response
  - Research projects with the development team

### acarda GmbH , Frankfurt am Main Germany

**September 2015 – July 2017**

- **Designation:** Consultant, Network & Security
- **Project:** Acarda LUX Datacenter, Internal projects
- **Description:** Responsible for Internal IT and Network/Security Admin for the Datacenter.
  - Setup of SaaS environments for clients, backup and failover infrastructure
  - Setup of PaaS for dev teams of the company

### acarda GmbH , Frankfurt am Main Germany

**August 2014 – September 2015**

- **Designation:** Network & Full Stack Engineer (Student Job)
- **Project:** Acarda LUX Datacenter, Internal projects
- **Description:** Maintenance of datacenters, NOC.

### Unisys Global Technological Services, Bangalore India

**October 2012 – April 2013**

- **Designation:** Network Engineer
- **Project:** Enterprise Network Engineer for clients; Design and Support.
- **Description:** Designing and implementing networking infrastructure for Enterprise Organizations.
  - Proposed new Network architecture to reduce the devices in the client infrastructure
  - Debugging and maintenance of production environments.

## Academic Projects:

### Academic Projects:

- **Event Processing:** ACM DEBS 2013 Grand Challenge implemented in Esper and Java. Received best grade in the University for the Project. (Team Project)
- **Publish-Subscribe:** Implemented an android app for Distributed Calendar (DistCal) using publish-subscribe approach. (<https://goo.gl/WCkv8p>) (Team Project)
- **Ubiquitous Computing:** Worked on a research project "Smart Kitchen" to collect data points from kitchen appliances using relevant sensors. (Team Project)
- **Reactive Programming:** Survey of reactive programming languages as a seminar coursework.
- **SchoolSoft:** Sole Developer for school software in .NET framework during Bachelor's aiming at providing a software solution for School Management.
- **Fault Tolerance:** Robustness Evaluation of AUTOSAR software components.
- **MaPoi:** Developed a Context-aware Android app for determining the point of interest of the user based on time spent at a location. (<https://tinyurl.com/y6g47xnp>) (Team Project)

## Skills:

<b>Languages:</b>	JAVA, UNIX Shell Scripting (proficient); C, PL/SQL (intermediate)
<b>DBMS:</b>	Oracle, MySQL, MongoDB
<b>Virtualization:</b>	Docker, VMWare, SDN (Software Define Networks)
<b>Operating Systems:</b>	UNIX/LINUX Distros, Windows Server OS, Windows Professional OS
<b>Tools and Software:</b>	TOAD, Metasploit, NIDS-Snort, Wireshark, Git, Android SDK, putty, Message Queues
<b>Web Technology:</b>	Joomla, Drupal, Typo3, HTML

## Master Thesis:

Designing and implementing a Mobile Honeypot system, HosTaGe (<https://tinyurl.com/y43bftlu>), based on Android to monitor and detect attacks in an Industrial Control Systems environment. The honeypot aims at detecting popular attacks like STUXNET, Duqu and Havex before they hit the critical systems. The Thesis has been accepted as a Publication and a Poster has been accepted at IEEE CNS2015 Conference on Communications and Network Security.  
More information: <https://tinyurl.com/y32vfdhx>

## Publications:

1. Name: Did you really hack a nuclear power plant? An Industrial Control Mobile Honeypot  
URL: <https://ieeexplore.ieee.org/abstract/document/7346907/>
2. Name: Multi-stage attack detection and signature generation with ICS Honeypots  
URL: <https://ieeexplore.ieee.org/abstract/document/7502992/>

## Certifications:

- **Certifications:** CCNA (Cisco Certified Network Associate @2011 Syllabus)
- **MongoDB:** Java MongoDB Developer.
- **Online Courses:** Introduction to Machine Learning, *Stanford University*.  
An Introduction to Interactive Programming in Python, *Rice University – Coursera*.  
Image & Video Processing Fundamentals, *Northwestern University – Coursera*

## Hobbies and Interests:

Reading novels, techno-fiction, autobiographies; DIY's, music, science documentaries.

**Shreyas Srinivasa**

**Date:** 15<sup>th</sup> April 2019

**Place:** Frankfurt, Germany