

# ASHISH KUMAR

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## Education

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### Northeastern University, Boston, MA

*Master of Science in Computer Science*, GPA: 3.42

May 2017

*Coursework:* Network Security, Program Design Paradigm, Web Development, Algorithms,  
Human Computer Interaction, Database Management, Managing Software Development

### Visvesvaraya Technological University, Bengaluru, India

*Bachelor of Engineering in Computer Science and Engineering*

May 2011

*Activities:* *Splash*, leader and founder of college art club

## Computer Knowledge

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**Languages & Technologies:** Python, JavaScript, AngularJS, React.js, Node.js, C, Java, JSX, CSS3, HTML5, SQL

**Tools:** Eclipse, Adobe Creative Suite, Webstorm, GIT, AWS, Wireshark, Sublime, Vim

**Network Protocols:** TCP/IP, IP Routing, UDP, VoIP, ITU-T-H.248, Cryptography

## Professional Experience

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### Ericsson, San Jose, CA

*Internet Protocol OS Engineering Intern*

January 2016 – August 2016

- Developed Yvcloud, a tool to automate IPOS developer workflow including building VMware cloud topologies generation, image installation and configuration setup for each node using Python in a two person team
- Designed and developed plugin for C-Lang format to be used on git diff when commit to a git repository

### Aricent Group, India

*Software Engineer*

August 2011 – June 2014

- Integrated Regression and Traffic tests into existing Python automation framework for testing media access gateway and automated new scenarios that conforms to H248/MEGACO protocol based architecture
- Implemented supporting features and performed debugging for Voice over IP media access gateway controller

## Academic Projects

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### TA Portal App (Java, AngularJS, MongoDB)

Spring 2017

Create replacement for the existing teaching assistant management portal with an automated and efficient web application

### Media Licensing Lab (Java, AngularJS, MySQL)

Fall 2016

Developed an online licensing lab through which musicians can be invited to upload their compositions with associated metadata for licensing. Exposed to agile software development lifecycle of an AngularJS based web application

### Union Capital Boston prototype (AngularJS, CSS)

Fall 2015

Developed a mobile friendly web interface for non-profit Union Capital Boston after evaluating the interface with continuous user feedback through iterative interview session and brainstorming ideas based on material design

### Secure Instant Messenger (Python, AES, RSA, SRP)

Fall 2015

Proposed design for secure instant messaging system and implemented using the Secure Remote Protocol (SRP) and Needham-Schroeder public key protocol. Algorithm includes AES 256 (CBC Mode), RSA 2048 bit, HMAC

### Ashart Website (HTML5, CSS3, JS)

Spring 2015

Implemented a responsive website using Artsy API to fetch detailed information about famous artists and artworks.

### Spaceship Game (Python)

Spring 2015

Developed an interactive single player shooting game using concepts of Physics, Python and Object Oriented Programming

## Additional Experience

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- Teaching Assistant at Northeastern University for graduate course Managing Software Development *Present*
- Freelancer Graphic Designer where developed designs for around 50+ organizations June 2010