ASHISH KUMAR

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Education

Northeastern University, Boston, MA
Master of Science in Computer Science, GPA: 3.42   January 2015 – 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   August 2007 – May 2011
Activities: *Splash,* leader and founder of college art club

Computer Knowledge

Languages & Technologies: Python, JavaScript, AngularJS, Node.js, Java , CSS3, HTML5, SQL, JSX, C#(basics)
Tools: Eclipse, AWS, Adobe Creative Suite, Webstorm, GIT, Wireshark, Vim
Network Protocols: TCP/IP, IP Routing, UDP, VoIP, ITU-T-H.248, Cryptography

Professional Experience

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
- Proposed and developed Python automation framework for testing media access gateway and automated every scenario that conforms to H248/MEGACO protocol based architecture
- Implemented features like MFCR2 calls,3 Party Call for Voice over IP application using C/C++
- Developed technical competency in SIP/MEGACO based media gateway and received team excellence award

Academic Projects

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
This project will be the first licensing lab run by students in USA

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 (*Python*)   Spring 2015
Developed an interactive version of asteroid game using concepts of Physics, Python and Object Oriented Programming

Additional Experience

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