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Visa status: US Citizen

CHIRAG JAMADAGNI

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EDUCATION

Georgia Institute of Technology (Atlanta, GA)   MS Computer Science   **Expected Dec 2018**

National Inst of Technology Karnataka (India)   BTech Computer Engineering   **May 2017**
GPA: 8.98/10.0

EXPERIENCE

Samsung R&D (Bangalore, India)   Software Engineering Intern   **May – July 2016**
- Developed a new native voice recorder application for the mobile suite of the Tizen OS (C & Tizen SDK).
- Developed a circular image cropping patch to the existing Image Editor Application (C & Tizen SDK).

MOOG ITC (Bangalore, India)   Research Intern   **May – July 2015**
- Conducted in-depth survey of existing multicore operating systems like Barrelfish, Akaros and Baremetal OS.
- Built an embedded system for flight controls on a Jetson Tegra TK1 chip, utilizing all cores efficiently.

Xerox IT Services (Bangalore, India)   Software Engineering Intern   **May – July 2014**
- Contributed to the development of multiple Liferay portlets (Java) for the Xerox Cloud web portal.
- Developed Selenium WebDriver scripts (Java) to test various web portal functionalities.

TECHNICAL SKILLS

Programming Languages	**Database & OS**	**Web Development**	**Familiar With**
Java; C/C++; Python; Julia; JavaScript	MySQL; Linux; Windows	Django; HTML/CSS; PHP; AngularJS; Liferay	ns-3; Tizen SDK; Git; Node.js; webRTC; Selenium WebDriver

PUBLICATIONS

1. **Chirag Jamadagni**, Abhijith Anilkumar, Kevin Mathew, Manjunath Mulimani, and Shashidhar Koolagudi. 2016. Dynamic 3D graph visualizations in julia. In *Proceedings of the Summer Computer Simulation Conference* (SCSC '16).
2. Amita Ajith Kamath, **Chirag Jamadagni**, and K. Chandrasekaran. 2016. VirtTorrent: BitTorrent for Inter-VM File Distribution. In *Proceedings of the International Conference on Internet of things and Cloud Computing* (ICC '16).

PROJECTS

5C Network   Web Development   **May-June 2017**
- Worked on integrating Oviyam DICOM viewer with their radiodiagnosis platform.   (Django)
- Developed a clinical decision support module to aid radiologists in making diagnoses.

ns-3 Contributions   Open Source Contribution   **Sept 2015–May 2017**
- Implemented TCP Westwood CRB, ABSE and BBE. Also developed a test suite for all Westwood variants.   (C++)
- Developed patches for Wormhole, ACK Division and TTL-based DoS attacks.

Concat: A Catalog for Conferences   Full Stack Development   **July-Dec 2016**
- Contributed to a website that matches academics to conferences in their research areas.   (Django, AngularJS)

NetworkViz.jl   Open Source Contribution   **Mar-May 2016**
- Worked on a Julia module to visualize graphs/networks in 3D.   (Julia)
- Presented at JuliaCon-MIT 2016.

GCPiN: Group caching for Privacy in NDN   Course Project   **Jan-May 2016**
- GCPiN is a novel network architecture for Named Data Networking (NDN) to increase the privacy of cached content with minimal performance losses.   (NDN)

Secure Chat   Hackathon Project   **Nov 2015**
- Developed a secure chat and file sharing application with OTR encryption and SMP authentication.   (webRTC)
- Selected as a finalist in Fidelity's hackathon 2016.

Operating Systems Lab   Course Project   **Feb-April 2015**
- Built an adaptive process scheduler for nachOS.   (C++)
- Developed a virtual memory simulator to compare different page replacement algorithms.