

# CHAITANYA CHOUDHARY NETTEM

chaitanyanettem@gmail.com

<http://www.cse.buffalo.edu/~cnettem>

<http://www.github.com/chaitanyanettem>

<http://www.linkedin.com/in/cnettem>

55 Merrimac Street

Buffalo – 14214

(716) 256 8527

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## SUMMARY

Masters student in Computer Science interested in data structures, algorithms and web applications. Actively searching for Software Development Internship position for summer 2014.

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## SKILLS

### *Languages:*

- Expertise in Python and C
- Proficient in C++, Perl
- Familiar with R, JavaScript

### *Frameworks and Tools*

- jQuery, web.py, Django
- Apache HTTP Server
- OpenGL, pthreads, Git

### *Operating System Tools:*

- Strong fundamentals in Linux
- Sed, Awk, Grep, Shell scripting and Socket Programming

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## EDUCATION

### **University at Buffalo, the State University of New York**

Aug 2013 – Dec 2014

- **Master of Science** (Computer Science)
- Courses: Operating Systems, Analysis and Design of Algorithms, Computer Security and Computational Biology

### **Visvesvaraya Technological University, India**

Aug 2009 – Jun 2013

- **Bachelor of Engineering** (Computer Science and Engineering)

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## RECENT PROJECTS

### **Fall Detector with Raspberry Pi**

Ongoing

*Proposal accepted for Pycon 2014 (<https://us.pycon.org/2014/schedule/presentation/104>)*

- This project makes use of the Raspberry Pi with a USB camera and detects falling objects.
- The goal is to detect a falling human in real time under differing lighting circumstances.
- OpenCV is used as the image processing library with Python.

### **Price Comparison Engine**

Mar - May 2013; Dec 2013

*Started as final project (Bachelor of Engineering) during Mar – May 2013*

- Visit at <http://chaitan.cloudapp.net/justcompare>
- Objective was to create a search engine for book prices in Indian retail sites.
- Involved writing several scrapers using Python with the BeautifulSoup and the psycpg2 libraries.
- Website implemented with HTML, CSS, JavaScript, the web.py framework and PostgreSQL full text search.

### **Multithreaded Web Server**

Oct 2013 – Nov 2013

*Operating Systems Course Project (<https://github.com/chaitanyanettem/webserver>)*

- Implemented a HTTP/1.0 web server which handles GET requests.

- The web server runs separate threads to listen for, schedule and execute requests.
  - Used the pthreads library in C to perform multithreaded programming with synchronization.
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## INTERNSHIPS

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### **Genetic Algorithms for metabolomics**

Dec 2011 – Jan 2012

*Indian Institute of Science, Bangalore*

- Assisted in research regarding viability of Genetic Algorithms as a technique for metabolite assignment.
- Data from Nuclear Magnetic Resonance of metabolite samples was used for testing.
- Implemented and tested genetic algorithms in R and compared them against traditional methods such as binning and Bayesian modelling.

### **SNMP Network Monitor**

Dec 2010 – Jan 2011

*Bharat Petroleum – Greater Noida*

- Primary responsibility was design and development of Network Monitoring System based on SNMP.
- The objective was to monitor links for maintenance of Service Level Agreements with ISPs.
- Developed, tested and deployed the system for BPCL Integrated Data Centre routers where it is still in use.