

Chandrakanth Chereddi · chereddi@gmail.com

Education

M.S., ECE University of Illinois at Urbana-Champaign, May 2006. GPA: 3.9/4
B.E., CSE Osmania University (Main Campus), India, May 2004. Best Student Award

Work Experience

Fulltime

Software Engineer, Google Inc., Mountain View, CA (May 2006 – Present)

Teaching

Teaching Assistant, Wireless Networks (Spring 2006)
Responsible for laboratory experiment design, grading and office hours.
Senior and graduate level course on Wireless Networking (ECE 498NHV/NV4).

Software Networking, Kernel Programming, Research

Research Assistant, Wireless Networking Group, UIUC (Fall 2004 – Spring 2006)
Net-X Project: <http://www.crhc.uiuc.edu/wireless/netx.html>

Summer Intern, Microsoft Corporation, Redmond, WA (Summer 2005)

- At Management Infrastructure Group – Windows Server Tools division.
- Developed Windows™ kernel mode IPMI device simulator for driver testing.

Image Processing Research

Voluntary Research Assistant, University of Hyderabad (Oct 2002 – Nov 2003)
Researched and implemented an Optical Character Recognizer for the *Telugu* language.

Network Administration and Support

Technical Consultant (Networks and OS), AnswerThink India (Sep '01 – Jun '04)
Designed and maintained corporate intranet, extranet mail and web servers.
Support for Linux OS base.

Trainee & Support Engineer, Macinfo Ltd. India (A startup ISP) (Jun '00 – Aug '01)

- Helped research and design backbone network.
 - Maintained gateway routers and mail/web servers.
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Awards & Honors

- **Best Student Award** – B.E class of 2004 Department of CSE
- **Best Paper – IEEE Student Paper Contest**, India, 2002
- **Felicitation by IEEE Hyderabad** for reviving the IEEE Branch – Osmania University
- **Best Volunteer Award**, IEEE Hyderabad Section, 2004

Leadership Activities

- **Moderator**, Linux Users Group Hyderabad (Aug 2002 – May 2004)
 - **Chairman IEEE**, College of Engineering, Osmania University (Apr 2002 – Apr 2004)
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Publications & Demos

1. “Design and Implementation of a Multichannel Multi-interface Network,” REALMAN Workshop, May 2006.
2. “Multi-Channel Mesh Networks: Challenges and Protocols,” Invited paper in IEEE Wireless Communications, April 2006
3. “Multi-Channel Multi-Interface Wireless Mesh Testbed,” demo, MobiCom 05
4. “Architecture & Protocols for Multi-Channel Wireless Networks,” demo, MobiHoc 05
5. “Localization Extraction and Recognition of Text in Telugu Documents Images,” International Conference on Document Analysis & Recognition, Edinburgh, UK, 2003
6. “Review on CBQ for Link Sharing & Resource Management,” IEEE Hyderabad Section – Student Paper Contest, 2002

(P.T.O)

Academic/Research Projects

- **Interface & Channel Abstraction Layer**
Research Project – Wireless Networking Group.
- **Implementation of Mean Value Analysis Algorithms for Closed Queueing Networks**
ECE 541 (Computer Systems Analysis) Fall 2005.
- **Implementation and Analysis of Illinois Scan Enhancements for Multiple Scan Chains**
ECE 543 (Digital Testing) – Spring 2005.
- **Bandwidth Measurement in Wireless Mesh Networks**
CS 598HL (Wireless Networks) – Fall 2004.
- **Analysis of Execution History Guided Instruction Prefetch**
ECE 511 (Adv. Computer Architecture) – Fall 2004.
- **Prototype User-Space Implementation of an OpenBSD like Stateful Firewall in Linux**
Undergrad Final Year Project – CMC Ltd. Hyd – Spring 2004.
- **Telugu language Segmentation and OCR System**
University of Hyderabad – Fall 2002.

References

- Dr. Nitin H. Vaidya, Professor, UIUC.
- Dr. N. N. Rao, Associate Department Head, ECE UIUC.
- Dr. Atul Negi, Associate Professor, Department of CIS, University of Hyderabad.

Skill Set

- High Level Languages: C, C++, Matlab, Perl, PHP, Java
 - Platforms: Extensive experience with **Linux (Kernel Programming)**, **Windows (Kernel Programming)**, UNIX, BSD & Windows™ (2003 Server, XP)
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