VENKATA KRISHNAN ANANTHA RAMAN

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Looking for Internships in Software Engineering in Summer 2018.

EDUCATION

M.S. in Computer Science | SUNY Buffalo | Buffalo, NY, USA (GPA: 3.5/4)

Aug 17 – Dec 18

B.E. in Electronics & Communication Engg. | Mepco Schlenk Engg. College | Sivakasi, India (GPA: 8.58/10)

2009 - 2013

WORK EXPERIENCE: 4 YEARS

Brocade Communications | Software Engineer | Bangalore, India

April 2016 - July 2017 (1.4 Years)

Virtual-LAG:

• Implemented Virtual-LAG on Brocade's Fast-Iron Family Routers

Layer-2 Networking Protocol Support:

- Implemented Virtual-LAN Configuration enhancements on Brocade's Fast-Iron Family Routers
- Worked on Layer-2 Networking protocols. (VLAN, xSTP, dot1-BR)

Aricent Inc. | Software Engineer | Chennai, India

Sep 2013 - April 2016 (2.8 Years)

Multi-Chassis Link Aggregation:

- Designed and developed Multi-Chassis Link Aggregation framework
- Fixed multiple issues on the existing base code in Layer2, Layer 3 Networking protocols. (HB, LAG, VRRP, ICCH)

Router-port Implementation on Broadcom:

- Designed and Implemented the Router-port feature over the Broadcom Chipset
- · Was Awarded "Individual Excellence Award" for quality delivery

Netconf, CLI & Open Source:

- Successfully refactored portions of the CLI (Command Line Interface) code for robustness and scalability
- Designed and Integrated open source Netconf Protocol code with Aricent's Switching Software

HTML Generation Tool:

Developed and maintained the Routing Software's Web-Interface Generation tool and increased speed by 100x

SKILLS

Programming: C, Python, C++, R, HTML, CSS, Shell, PHP, Java, XML, Javascript, Jquery, Mysql, AJAX

Technologies: Git, CVS, Layer 2/Layer 3 Networking Protocols, Apache, Linux, Android

Tools: GDB, Valgrind, Coverity, Wireshark, Android Studio, Bootstrap, Dreamweaver, WordPress

PROJECTS

- **Priority/MLFQ Scheduler C**: Implemented a Priority scheduler using priority-donation to solve priority-inversion and Multilevel feedback queue scheduler to reduce average wait time for threads in Pint-OS
- System Call Infra C: Implemented system calls, support for user-programs in Pint-OS
- Virtual Memory C: Implemented Virtual Memory infrastructure in Pint-OS
- Chat Application C: Implemented Client-Server Chat application with buffering and file sharing capabilities
- Reliable Data Transfer Protocols C: Implemented Alternating Bit, Selective Repeat and GoBack-N Protocols
- Software Defined Networking -C: Implemented a Distance Vector routing protocol over simulated routers
- 2048 Game Solver Python: Implemented an AI Based 2048 Game Solver using min-max algorithm and alpha-beta pruning
- Bike Share User Prediction Python: Implemented a Neural Network based Bike Share User Prediction by employing Gradient Descent and Back-propagation using historical data

ADDITIONAL EXPERIENCE AND AWARDS

- Individual Excellence Award: Awarded for the project "Router-port implementation on Broadcom"
- Best Technical Project Award: Awarded for Implementing Session Initiation Protocol over TCP/UDP
- Team Excellence Award: Awarded for the project "Dual-Unit Stacking over BFD"
- Best Project Award: Awarded for "Digital Water Level Indicator and Motor controller", "High-Def USB Multimedia Speaker", "Gesture Controlled Robot" and "Design of wearable gadgets with virtual interaction using augmented reality for enhanced vision" during under-grad course
- Motorola Scholar Programme: 2011-12: Won 3rd Prize out of 100+ projects for Automated Wheelchair Project
- As a freelancer, developed multiple web-based solutions for clients across the globe through Upwork