Aniket Alshi

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Education

M.S. (CS) Stony Brook University, NY *Dec 14*

B.Tech. (CS) Veermata Jijabai Technological Institute, Mumbai University *June 12*

Relevant courses: • Operating Systems • Compiler Design • Algorithms • Network Security • Data Mining • Network Programming

Work Experience

Oracle Labs, *Member of Technical Staff* *Feb 15 - Present*

- Part of RAPID - hardware software codesigned for accelerating queries in DRAM.
- Working on network stack, memory managment and low level network apis.

Riverbed Technology, *Engineering Intern* *May 14 - August 14*

- Part of Cloud SteelHead team - WAN optimization device for SaaS services.
- Worked on kernel portocol stack, socket programming, networking apis.

CA Technology, *Graduate Research assistant* *Nov 13 - Jan 14*

- Worked on data analytics pipeline using Apache Storm, processing using Spark.

Cisco Systems, *Software Engineer* *June 12 - June 13*

- Development on virtual network drivers in *Prime Network* a network management system.
- Experience of working on Cisco IOS, catalyst switches, L2, L3 protocols.

Projects

SBUnix - x86 64 bit Kernel

- Developed a 64 bit x86 based preemptive kernel along with libraries, device drivers and utilities.
- Components - memory management, paging, context switching, shell, syscalls and file system.

Compiler for *E*– Language

- Developed a compiler for E– event-processing language using C++, flex Yacc, Bison.
- Phases - lexical analysis, parsing, semantic analysis, code generation and optimization.

KDTree library for *C++*

- KD Tree is used for efficient orthogonal search, range search, nearest neighbor search queries.
- Achieved optimized performance for fast and concurrent querying on large datasets.

Prediction Modeling on user edit trends of Wikipedia articles

- Implemented Machine learning based approach to predict the edit trends of Wikipedia editors.
- Determine the factors responsible for change in editing behavior.

Reliable File Transfer

- Developed TCP like reliability on top of UDP for reliable and concurrent file transfer.
- Implemented TCP Reno mechanism for ARQ sliding window, flow control, congestion control.

Skills

Languages: ***Development***: C , C++, Python, Scala
Scripting: bash, Perl

Tools: Wireshark, R-software, Oracle DB, weka tool, network tools

Awards

- Received the *Cisco Spark* award for distinguished performance.
- Received the Rotract Scholarship for academic excellence in undergraduate.
- Recognized for developing best location aware app at Yahoo Open hack conference.