Chris Cotter

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Objective

To find a summer internship that will not only utilize, enhance and deepen my understanding of computer science but also develop and improve my business communication skills.

Education

University of Texas, Austin, TX   Fall 2009 – Present

Bachelor of Science, Computer Science, December 2013 (Turing Scholars Honors program)

Bachelor of Science, Pure Mathematics, December 2013

Overall GPA: 3.96/4.0 - 150 credit hours accumulated, 113 in residence

Relevant Courses   Honors in bold.

Algorithms and Data Structures; **Analysis of Programs**; **Computer Systems Architecture**; **Operating Systems**; **Algorithms**; Graduate Compilers; Graphics; Artificial Intelligence; Real Analysis I; Algebraic Structures I; Probability; Number Theory; Solid-State Electronics; Linear Systems and Signals.

Experience

Software Developer Intern, IBM, Austin, TX   May 2012 - Present

Worked on emerging Internet technologies team to fix bugs and enhance an open source collaborative application framework. Also worked on adding relay server (TURN NAT traversal) for peer-to-peer video conferencing software. Currently adding cryptographic (openssl) and server interfaces for new product ideas.

Financial Software Developer Intern, Bloomberg LP, New York, NY   Summers of 2010, 2011, 2013

Developed a regression test suite for internal groups to track the accuracy and changes to the Bloomberg terminal search engine. Internal teams track engine history, fix data issues, and identify engine data trends.

Worked on the Equity Screening team to enhance results customization for clients. Communicated with the business side of the product to tailor the new functionality to improve clients' workflow.

Academic Projects

Worked on Linux Kernel to add system call support to enforce deterministic execution of user-level processes. System calls interact primarily with the memory management system and interprocess communication and synchronization.

Wrote considerable code for an operating system implementing virtual memory, user level processes and a Unix style file system. Worked with a partner to port TCC compiler to the OS and write a graphical window system.

Profiled Andersen pointer analyses to gain a greater understanding of each algorithm's execution characteristics.

Skills

Well acquainted with C, C++, the Java API, Unix and data structures and algorithms. Intermediate experience with x86 assembly, Linux kernel programming, HTM, Javascript, SQL, Verilog and various scripting languages.

Experience with and interest in network protocols, cryptographic protocols, and compiler technologies.

Activities and Honors

University Honors	UIL State One Act Play 1st Place Company
Virginia & Ernest Cockrell, Jr. Scholarship	Unrestricted Endowed Presidential Scholarship Recipient
Distinguished Scholar	Turing Scholars Student Association Elected Board Member