
EMPLOYMENT

Software Engineer, Intern	Apple Computer	Summer 2004
iChat AV		
<ul style="list-style-type: none">• Reduced time to render the user's buddy list by 75% by implementing prediction algorithm.• Implemented iChat integration with OS X Spotlight Search by creating tool which extracts metadata from saved chat transcripts and provides metadata to a system-wide search database.• Redesigned chat file format and implemented backwards compatibility for search.		
Lead Student Ambassador	Microsoft Corporation	Fall 2003 – Spring 2005
<ul style="list-style-type: none">• Promoted to Lead Student Ambassador in Fall 2004; supervised 10 – 15 Student Ambassadors.• Created and taught Computer Science course, CSE 099: Software Design and Development.		
Head Teaching Assistant	University of Pennsylvania	Fall 2001 – Spring 2005
<ul style="list-style-type: none">• Courses: Advanced Java III, Software Engineering, Mathematical Foundations of Computer Science I & II.• Promoted to Head TA in Fall 2004; led weekly meetings and supervised four other TAs.		
Software Design Engineer, Intern	Microsoft Corporation	Summers 2001 - 2003
Visual Studio Core (Summer 2003)		
<ul style="list-style-type: none">• Implemented a user interface for the VS open file switcher (ctrl-tab) and extended it to tool windows.• Created service to provide gradient across VS and VS add-ins. Optimized service via caching.		
Programmer Productivity Research Center (Summers 2001, 2002)		
<ul style="list-style-type: none">• Built app to compute similarity of all methods in a code base; reduced time from $O(n^2)$ to $O(n \log n)$.• Created test case generation tool which creates random XML docs from XML Schema.		

EDUCATION

Philadelphia, PA	University of Pennsylvania	Fall 2000 – May 2005
<ul style="list-style-type: none">• M.S.E. in Computer and Information Science, May 2005. GPA: 3.6• B.S.E. in Computer Science Engineering with Minor in Mathematics, May 2005. In-major GPA: 3.4.• Graduate Coursework: Software Foundations; Computer Architecture; Algorithms; Artificial Intelligence; Comparison of Learning Algorithms; Computational Theory.• Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture; Engineering Entrepreneurship; Calculus III.		

TECHNICAL EXPERIENCE

Projects

- **Multi-User Drawing Tool** (2004). Electronic classroom where multiple users can view and simultaneously draw on a "chalkboard" with each person's edits synchronized. C++, MFC
- **Synchronized Calendar** (2003 – 2004). Desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users. C#.NET, SQL, XML
- **Operating System** (2002). UNIX-style OS with scheduler, file system, text editor and calculator. C

ADDITIONAL EXPERIENCE AND AWARDS

- **Instructor (2003 – 2005)**: Taught two full-credit Computer Science courses; average ratings of 4.8 out of 5.0.
- **Third Prize, Senior Design Projects**: Awarded 3rd prize for Synchronized Calendar project, out of 100 projects.

Languages and Technologies

- C++; C; Java; Objective-C; C#.NET; SQL; JavaScript; XSLT; XML (XSD) Schema
- Visual Studio; Microsoft SQL Server; Eclipse; XCode; Interface Builder