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GAYLE L. MCDOWELL

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EMPLOYMENT

Software Engineer, Intern

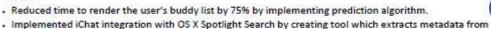
Apple Computer

Summer 2004



iChat AV

Reduced time to render the user's buddy list by 75% by implementing prediction algorithm.



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

- 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

University of Pennsylvania

Fall 2001 - Spring 2005

- Courses: Advanced Java III, Software Engineering, Mathematical Foundations of Comp. Sci. 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)

- 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)



- Built app to compute similarity of all methods in a code base; reduced time from O(n²) 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

- 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

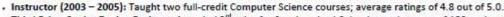
TECHNICAL EXPERIENCE

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



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

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