

Muhammad Umair

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Education

University of Pennsylvania, BS in Computer Science Sept 2000 – May 2005

- GPA: 3.9/4.0 (Transcript)
- **Coursework:** Computer Architecture, Artificial Intelligence, Comparison of Learning Algorithms, Computational Theory

Experience

Software Engineer, Apple – Cupertino, CA June 2005 – Aug 2007

- Reduced time to render the user's buddy list by 75% by implementing a prediction algorithm
- Implemented iChat integration with OS X Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

Lead Student Ambassador, Microsoft – Redmond, WA Sept 2003 – Apr 2005

- Promoted to Lead Student Ambassador in the Fall of 2004, supervised 10-15 Student Ambassadors
- Created and taught a computer science course, CSE 099: Software Design and Development

Head Teaching Assistant, University of Pennsylvania – Philadelphia, PA Oct 2001 – May 2003

- Implemented a user interface for the VS open file switcher (ctrl-tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimized its performance via caching
- Programmer Productivity Research Center (Summers 2001, 2002)
- Built an app to compute the similarity of all methods in a code base, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema

Software Engineer, Intern, Microsoft – Redmond, WA June 2003 – Aug 2003

- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

Projects

Multi-User Drawing Tool github.com/name/repo

- Developed an electronic classroom where multiple users can view and simultaneously draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Calendar github.com/name/repo

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Operating System 2002

- Developed a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Software: .NET, Microsoft SQL Server, XCode, Interface Builder