

Mayura Manawadu

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Personal Website

in Mayura Manawadu

mayura1996

Education

BS University of Sri Jayewardenepura, Computer Engineering

Sept. 2000 to May 2005

- GPA: 3.76/4.0 ([Transcript](#)) - 2nd highest GPA in the Department of Computer Engineering, Dean's List in 4 semesters
- Coursework:** Software Foundations, Computer Architecture, Algorithms, Artificial Intelligence, Comparison of Learning Algorithms, Computational Theory.

Experience

Apple Computer, Software Engineer, Intern

CA, USA

- 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 that extracts metadata from saved chat transcripts and provides metadata to a system-wide search database.
- Redesigned chat file format and implemented backward compatibility for search.

June 2004 to Aug. 2004
2 months

Microsoft Corporation, Lead Student Ambassador

WA, USA

- 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.

Sept. 2003 to Apr. 2005
1 year 7 months

University of Pennsylvania, Head Teaching Assistant

PA, USA

- 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 service via caching.
- Programmer Productivity Research Center (Summers 2001, 2002)
- Built app to compute the similarity of all methods in a code base, reduced 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.

Oct. 2001 to May 2005
3 years 7 months

Microsoft Corporation, Software Design Engineer, Intern

WA, USA

- Promoted to Lead Student Ambassador in the Fall of 2004, supervised 10 - 15 Student Ambassadors.

June 2003 to Aug. 2003
2 months

Publications

Magneto-Thermal Thin Shell Approximation for 3D Finite Element Analysis of No-Insulation Coils

Jan. 2004

A. Smith, **J. Doe**, J. Derry, H. Tom, A. Andsurname

[10.1109/TASC.2023.3340648](#) ()

Projects

Multi-User Drawing Tool

Jan. 2004

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

Synchronized Calendar

2003 to 2004

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

Operating System

Jan. 2002

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

Additional Experience And Awards

Instructor (2003 - 2005): Taught two full-credit Computer Science courses.

Third Prize, Senior Design Projects: Awarded 3rd prize for a synchronized calendar project out of 100 projects.

Technologies

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

Software: Visual Studio, Microsoft SQL Server, Eclipse, XCode, Interface Builder