9 Orion Lane, Australind Australia WA 6233

# KADYN-JAI PEARCE

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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.
- 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

- 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

- 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)

- 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  $O(n^2)$  to  $O(n \log n)$ .
- Created test case generation tool which creates random XML docs from XML Schema.

# **E**DUCATION

## 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**

- 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 3<sup>rd</sup> prize for Synchronized Calendar project, out of 100 projects.

# Languages and Technologies

- TypeScript; JavaScript; Solidity; C++;
- Visual Studio; Linux, Windows, MacOs