

**Home Address:** 16733 Frontenac Terrace, Derwood, MD 20855-2051

**Home Phone:** (301) 977-3372

**Web:** <http://www.contrib.andrew.cmu.edu/~ajo/>

## Objective

No longer searching for a job.

## Education

B.S. in **mathematical science**, **Carnegie Mellon University**, May 2006

B.S. in **computer science**, Carnegie Mellon University, May 2006 (dual degree, University honors)

Relevant coursework in operating systems (15-410), compiler design, algorithm design and analysis, combinatorics, linear algebra, graph theory, and group theory

Courses in Spanish for six and a half years (1997–2003), and in Chinese for two and a half years (2002–2004)

IB Diploma from Richard Montgomery H.S. in Rockville, Md. (2002); National Merit Finalist; Sixth Subject project in computer science: a compiler for a small programming language

## Skills

Familiarity with applications such as Excel, PowerPoint and MSVC, as well as programming tools such as `grep`, `diff`, and `man`. Have used CVS, SourceSafe, and SourceDepot versioning systems

Extensive familiarity with the **C** and **C++** programming languages and the TI-83 graphing calculator

Varying degrees of familiarity with numerous other programming languages, including C#, Java, Matlab, Perl, Ocaml, SML, Pascal, METAFONT, and APL

Familiarity with Windows, MS-DOS, and GNU/Linux, including deep knowledge of 80x86 assembly language. Working knowledge of Mac OS X and other Unix operating systems and shells

Proficiency with typesetting and layout in  $\text{\LaTeX}$  and Adobe InDesign

Conversant in Spanish; some knowledge of Chinese

## Work Experience

Internship at **Microsoft**, May–August 2005, in the Visual Studio Tools division. Designed and implemented a syntax-highlighting editor in C# using the VSIP libraries

Internships at **Spatial Integrated Systems, Inc.**, June–August 2003 and May–August 2004. Wrote utilities, driver code, camera calibration and feature detection software using Matlab, C, and C++ (<http://www.sisinc.org/>)

Worked at *The Tartan*, Carnegie Mellon's student newspaper, on copy staff, October 2002–May 2006; as copy manager, 2003–2005

Volunteered on CMU's **Robocup** AIBO soccer team (a large C++ project), 2002–2003

## Activities and Interests

Juggling, academic quiz bowl, crossword construction; inactive member of CMU KGB

Boy Scout up to Life rank; earned membership in the Order of the Arrow

**Interests** in relationships between information and data, including programming language design, program generation, machine vision, linguistics, typography, and elegant algorithms in all fields

**References available upon request.**