

# JONATHAN MACK

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## OBJECTIVE

To obtain a position as a software engineer such that I can live in New York City or San Francisco.

## WORK EXPERIENCE

**Spreadsheet/Database Developer** 1/09 - Present

Designed and implemented various helicopter EMS-related spreadsheets and databases, in use by multiple bases, while working full-time as an EMS helicopter pilot.

*Air Methods Corporation* *Various Locations*

**Web Developer** 7/08 - Present

Designed, implemented, and maintained multiple standards-compliant websites, using HTML, CSS, PHP, MySQL, and JavaScript.

*Various Clients* *Various Locations*

**CS101 Content Developer** 8/08 - 12/08

Designed and edited web pages and homework/exam projects for use in West Virginia University's Introduction to Computer Applications class, which combined instruction in critical thinking skills and Microsoft Office applications (Word, PowerPoint, Excel, and Access).

*West Virginia University* *Morgantown, WV*

**Software Engineering Intern** 5/08 - 8/08

Designed and implemented a configurable database manipulation application using agile test-driven development methods for a large corporate client. Applied Java, Oracle Database Express Edition, dom4j, JUnit, and log4j technologies during implementation.

*Strictly Business Computer Systems* *Huntington, WV*

**Graduate Research Assistant** 1/07 - 12/07

Assisted a WVU Computer Science faculty member in research and report composition in a NASA-funded research project investigating software validation of spacecraft real-time operating systems.

*West Virginia University* *Morgantown, WV*

**CS101 Instructor** 1/06 - 12/06, 1/08 - 5/08

Developed lessons, graded homework and exams, and instructed students in multiple sections of West Virginia University's Introduction to Computer Applications class, which combined instruction in critical thinking skills and Microsoft Office applications (Word, PowerPoint, Excel, and Access).

*West Virginia University* *Morgantown, WV*

**Aeronautical Engineer** 9/98 - 5/00

Worked as a certification, design, flight test, and weight & balance helicopter engineer.

*Robinson Helicopter Company* *Torrance, CA*

## EDUCATION

**Master of Science Computer Science** 1/06 - 12/08

3.72 GPA. Problem Report: Test-driven development of a performance-critical database record-tree balancing application.

*West Virginia University* *Morgantown, WV*

**Bachelor of Science Aerospace Engineering** 8/93 - 5/98

3.45 GPA, graduated cum laude

*West Virginia University* *Morgantown, WV*

## PROGRAMS/LANGUAGES/SPECIFICATIONS

C, CSS, Fortran 77, HTML, Java (dom4j, JUnit, log4j), JavaScript, Microsoft Office (Word, Excel, PowerPoint, Access), MySQL, Oracle Database, PHP, Ubuntu Linux, UML, Windows XP/Vista/7/8