

JONATHAN MACK

(304) 685-0605 • jonmack3@gmail.com • <http://www.jonathankmack.com> • New York, NY

OBJECTIVE

To obtain a position as a software engineer in or near Vancouver, Toronto, the Northeast US, or the West Coast of the US.

WORK EXPERIENCE

Research Assistant 2/16 - Present

Designed, wrote, and validated code investigating multiple galaxy mergers in the Illustris cosmological simulation, and analyzed the resulting data.

Simons Foundation New York, NY

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

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/Content Developer 1/06 - 12/06, 1/08 - 5/08, 8/08-12/08

Designed and edited web pages and homework/exam projects, 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

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

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