
ROBERT M. BALDWIN

407.716.6097 - bob@veganbob.com - 2208 Pine Park Trail #2835, Orlando, FL 32817

OBJECTIVE

Software Engineering position. Experience: R&D, team, and individual environments; 4.5 years software and web.

EDUCATION

University of Central Florida; Orlando, FL — 2003-2007
Computer Science (B.S.), Mathematics (minor)

GPA: 3.79 / 4.0
Cum Laude and University Honors

HONORS & ACHIEVEMENTS

The Honors College

- Experienced enriched and accelerated learning in traditional and non-traditional classroom settings; development of personal and business management skills.

Achievements

- **Most Active Facebook Application for the Web:** fbCal.com, November 2007
- Link Simulation & Training, Team Achievement Award for **Exceptional Performance**, September 2006
- **Congressional Modeling & Simulation Caucus**, L3 Communications Exhibitor, July 2006
- Road-Runner's Internationale, **Website of the Month:** BobAbernethy.com, August 2005
- United Space Alliance Flight Design and Dynamics, **Employee of the Month**, June 2005
- Recipient of 11 academic, civic, and technology scholastic awards, totaling more than **\$39,500**
- 1 year on **President's List** Honor Roll and 3 years on **Dean's List** Honor Roll, 2003 - 2007

Advanced Course Work

- Artificial Intelligence, Database Systems, Operating Systems, Programming Languages, Discrete Structures I-II, Computer Architecture, Computer Science I-III, Object Oriented Programming, Problem Solving
- Calculus I-III, Differential Equations, Vector & Tensor Analysis, Number Theory, Physics I-II

AWARDS & SCHOLARSHIPS

Academic Achievement Awards

- **Florida Academic Scholars Award** (2003-2007) \$13,195 (100% tuition and fees + \$600)
- **UCF High Achievement Award** (2003-2007) \$8,400
- **Convergys Academic Achievement Award** (2006-2007) \$5,000
- **Convergys Academic Achievement Award** (2005-2006) \$5,000
- **Sailfish Point Foundation Academic Award** (2003-2004) \$1,500

Scholastic Awards

- **Florida Association of Educational Data Systems (FAEDS) Scholarship** (2006-2007) \$2,000
- **Boeing Company Scholarship** (2006-2007) \$2,000
- **Society for Information Management (SIM) Endowed Scholarship** (2006-2007) \$1,500
- **B. Joseph Teneriello Scholarship** (2005-2006) \$1,000

Leadership Awards

- **SGA Extreme Leadership Award** (2005-2006) \$500
- **SGA Campus Involvement Award** (2005-2006) \$250

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EXPERIENCE

Avatar International, Software Engineer; Sanford, FL — 2007 - present

Created and managed internal applications and an external reporting engine in mostly a team environment.

- **ImprovingCare.com:** Lead Developer and **Product Owner** for this major patient satisfaction reporting engine. Enhanced **user experience** of complex data for healthcare professionals. PHP5, MySQL, AJAX.
- Designed **information architecture** for and leading development of an **MVC-pattern, RESTful API.** Python.
- **Intelligent Surveys™:** Assisted in the development of a very flexible, online survey system made for healthcare employees and patients. System intelligently selects questions based on user demographics, location, and previous responses to questions. Written using PHP5 (object oriented design) and MySQL.
- Created a supplemental PDF reporting engine made to replace a tedious legacy system. The system saves 16 work hours per report, translating to a minimum **savings of 500 hours of labor per year.**

L3 Communications (Link Sim. & Training), Software Engineer; Orlando, FL — 2006

Researched, developed, and presented new training systems for Link Simulation and Training's Strategic Technologies Team's Independent **Research and Development (IRAD)** group for simulation purposes.

- Received a **Team Achievement Award** for my exceptional performance on the UAS Prototype project, nominated by Lead Investigator of Emerging Technologies Mark Falash.
- **Unmanned Air Vehicle Control Training System:** Utilized technologies to remotely control UAVs, including: XML, XHTML, CSS, client-side JavaScript, AJAX, Flash, Java servlets, C++, and QT.
- **Congressional Modeling & Simulation Caucus 2006:** Demonstrated our UAV Training System to congressman and caucus chairman J. Randy Forbes and his congressional colleagues.

University of Central Florida, Teaching Assistant; Orlando, FL — 2004, 2006

Computer Science Teaching Assistant for C Programming course, as well as Advanced Problem Solving.

- Course's **best-rated teaching assistant** over two terms by students, "highly knowledgeable."
- Tutored in both modular and object-oriented programming (OOP) and problem solving skills.
- **Graphical Game Interface:** Developed a game board program with an advanced graphical user interface (GUI) in Java. Utilized event-driven programming techniques. Platform independent.

United Space Alliance (NASA contract co.), Software Engineer; Houston, TX — 2005

Engineered software solutions for the Navigation department at Johnson Space Center. Prime developer of the simulation scheduling tool. Both self-directed and team-oriented environments. Used VBA, Tcl/Tk.

- Received division-wide **Employee of the Month** (June 2005) for these initiatives, nominated by Navigation and Flight Design Integration's Manager II Gregory Schrage.
- **Fast Automated Scheduling Tool (FAST):** Designed and implemented automated a complex scheduling of navigational flight controllers at Johnson Space Center, saving over 4 hours per week of labor. FAST presents schedulers with articulate displays by accounting for complex scheduling guidelines, constraints, certification levels, and assignment history statistics. Demoed for USA and NASA departments interested in automating manual tasks. Microsoft Office integration; Excel utility; written in ~9000 lines of VBA code.
- **Trajectory Server Memory Manager:** Tracks memory usage in NASA's Trajectory Server as well as United Space Alliance's Common Development Environment with respects to its memory allocations. Prevents data loss, reports by directory or size, is operating-system independent, utilizes several UNIX-based commands. Written in Tcl/Tk, used mainly in RedHat Linux.

Mike's Computer Marketing, Senior Computer Specialist; Palm Beach, FL — 2001 - 2004

Address database manipulation, repair, and management. IT duties. Website development and marketing.

- **Database Management:** Wrote many programs designed to convert formatting and fix 500,000 entry databases for errors and complex inconsistencies. Many filetypes examined.

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INDEPENDENT WORK

Website Development; 2004 - present

Created and managed FocusHabits.com, MriPhone.com, fbCal.com, fbLink.com, VeganBob.com, CSBob.com, BARCDontBite.org, BobAbernethy.com, MikesAdvertising.com, ProgressiveCouncil.org, EcoUCF.org, EcoRachel.com, DeluxeBoggle.com, AilyOnline.com, MakingOurRealityEveryday.com, and PeterCard.com. Mainly PHP & MySQL driven. Integration of web design, weblogs, photo galleries, and WebDAV-stored calendars. W3C-compliant, CSS-based design with multiple browser compliancy. Consultant for UCF Women Studies.

- Road-Runner's Internationale, **Website of the Month:** BobAbernethy.com, August 2005.
- **Website Design & Remote Databases:** Weblogs using PHP and MySQL to display entries and comments from host. AJAX for dynamic web interfaces. Advanced CSS used for flexible layouts. Photo gallery with a PHP driven display & comments stored using MySQL database.

Facebook Application Development; 2006 - present

Created and managed fbCal.com and fbLink.com. PHP & MySQL driven.

- **Most Active Users** of any Facebook Application for the Web: fbCal.com, November 2007 - April 2008.
- **Most Activity** of any Facebook Application for the Web: fbCal.com, November 2007 - April 2008.
- "Easy iCalendars" **presentation** concerning logistics and business applications of the iCalendar format and subscription services, given at BarCamp conference in Orlando, FL on Sept 23, 2007.
- Maintained iCalendar file compliance and calendar compatibility for major calendar applications (Microsoft Outlook, Google Calendar, Apple iCal, Mozilla Sunbird, and others). Submitted valid and repeatable bugs to the appropriate vendors.

TECHNICAL SKILLS

Programming	PHP, Python, Java, Javascript, C, C++, Visual Basic, VBA, Tcl/Tk, Lex/Yacc, Lisp
Technologies	LAMP Platform, AJAX, MySQL, JavaScript, CSS, HTML, DHTML, Qt interface development, DOM manipulation, XML, XHTML, WebDAV, CherryPy, Genshi templating, JQuery, Prototype, Yahoo UI Library, Adobe Spry
Software	Dreamweaver, Adobe Photoshop, Xcode, Automator, Microsoft Development Software (Visual Studio .NET, Visio Professional, Project Professional), Netbeans, Frontpage, Eclipse, GL Studio, Microsoft Office (development level)
Operating Systems	Experienced in Windows and Mac OS X. Familiar with Linux and UNIX.

ACTIVITIES

UCF Programming Team (2005-2007)	Placed in the highly individual local programming competition. Competed twice in regional ACM International Collegiate Programming Contests in a team environment.
Association for Computing Machinery (2003-present)	ACM member and collegiate programming competitor.
Animal Rights (2002-present)	Campaigned and volunteered nationally to lessen animal suffering and the needless cruelty prevalent in factory farming practices. Served in founding and leadership roles (webmaster, secretary, promotions) with UCF's animal rights organization.
UCF Mentoring Program (2006)	Mentor for incoming freshmen at UCF on social and academic issues.
UCF Women Studies Department (2006)	Website consultant and technical support for advanced web topics.
Boy Scouts (1991-2006)	Long-standing, brotherhood member of the Order of the Arrow national honor society. Several leadership roles. Many community service projects, including Scouting for Food.