Matthew Harris

839 Carrie Street Stockton, 95206
(209) 597-4368 | harris112@llnl.gov
mattben.info | github.com/mattben

Summary

An accomplished software developer with expertise in web application development. A quick learner, passionate, and well-rounded team member interested in all types of software development.

Areas of Expertise

- Web application development and administration
- Team building and interpersonal communication
- Strong mentoring skills

Skills Highlight

Programming Languages

Python, Java, PHP, C++

Web Backend Development

Django, Flask, Apache, Jekyll, Git, Anaconda

Database Development

PostgreSQL, SQLite, MySQL, MariaDB

Web Frontend Development

JavaScript, jQuery, HTML, Markdown, CSS, Bootstrap

Operating Systems

RedHat6, CentOS6, Ubuntu, OSX, Windows

Other Products

Jira, Confluence, GitHub Projects, Photoshop

Professional Experience

Lawrence Livermore National Laboratory Software Developer (May 2012 – Present)

- Team lead and Lead developer for vCDAT GUI for *Ultrascale Visualization Climate Data Analysis Tools* (UV-CDAT) using React and Redux with a Flask backend. Led a team consisting of eight members. Assigned work using Jira and GitHub. Released December 2017 the abilities of selecting, editing, and plotting user data.
- Wrote and deployed Django, PostgreSQL web applications. Publication Hub a white paper publication tracker with meta data capture and search capabilities. UV-CDAT Usage a dashboard displaying and collecting UV-CDAT user data. ACME Dashboard v1 the prototype for starting, monitoring, and viewing climate model runs/output. CDATWeb the first version of vCDAT where the data, and compute node ran on an GPU cluster.
- Wrote, designed and developed a Python library *Webengine* to automatically scrape all visible pages of outdated sites and converting them to Markdown/Jekyll pages.
- Contributed to the Earth System Grid Federation's (ESGF) original web portal using HTML, JavaScript and a Java Swing backend built with Apache Ant running on Apache TomCat.
- Build Engineer creating Anaconda builds, testing, and deploying UV-CDAT and vCDAT.

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- Systems administrator for eight GitHub Organizations and all their repositories.
- Mentored and trained new hires and interns. Led recruiting efforts for entire laboratory at California State University Chico.
- DOE "Q" clearance.

Lawrence Livermore National Laboratory Intern Software Developer (Jan 2011 – May 2012)

- Development on the Enterprise Reporting Workbench(ERW) using Oracle JDeveloper 11g, ADF, JSP, JSF and SVN.

Auctiva Intern Software Developer (May 2010 – August 2010)

- Implemented feature enhancements and bug fixes for corporate web site, a C#, asp.net web application running on an ISS server.

Education

California State University, Chico (May 2012)

Bachelor of Science in Computer Science; Minor in Mathematics.

Publications

Matthew Harris, "Webengine", Proceedings of the World Congress on Engineering and Computer Science 2014, Vol. I, WCESC 2014, 22-24 October 2014, San Francisco, USA, pp. 131-135, ISBN: 978-988-19253-6-7

Matthew B. Harris, Samuel B. Fries, Sterling A. Baldwin, and Dakotah S. M. Webb, "Nerd Herding: Practical Project Management in the Field" Proceedings of The World Congress on Engineering and Computer Science 2015, Vol. I, WCECS 2015, 21-23 October 2015, San Francisco, USA, pp123-126, ISBN: 978-988-19253-6-7

Sterling A. Baldwin, and Matthew B. Harris, "Science as a Service," Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering and Computer Science 2016, 19-21 October 2016, San Francisco, USA, pp407-409, ISBN: 978-988-14047-1-8

Matthew B. Harris, Sam B. Fries, Dean N. Williams, Sterling A. Baldwin, James W. Crean, Bryce J. Sampson, Edward M. Brown, and Anna Paula M. Pawlicka, "The Legend of CDAT: A Link to the Past," Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering and Computer Science 2016, 19-21 October 2016, San Francisco, USA, pp181-184, ISBN: 978-988-14047-1-8