

# JEFFERY BURROUGHS

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**SYSTEMS ENGINEER II** with in-depth programming experience with JavaScript, jQuery, AJAX, Node.js, Angular.js, d3.js, PHP, and CSS. Adept in web application design, implementation, and deployment. Consistently designs high quality applications and easy to maintain code. Skilled at eliciting requirements information. Exceptional communicator and positive team leader; consistently translates the benefits of soft skills to improve teamwork and productivity.

## EXPERTISE

JavaScript - 7/10 \* Node.js - 7/10 \* HTML/CSS - 8/10 \* Angular.js - 4/10 \* D3.js - 2/10 \* Dust.js - 8/10  
MySQL - 8/10 \* MongoDB - 5/10 \* PHP - 8/10 \* AJAX - 7/10 \* jQuery - 6/10 \* C++ - 4/10 \* C# - 7/10 \* Java - 7/10  
Agile/Scrum - 8/10 \* Balsamiq/Wire Framing - 6/10 \* Personas - 7/10 \* Git - 8/10 \* SVN - 6/10

## KEY ACHIEVEMENTS

- Primary Engineer on Front End UI for Prolexic Routed product.
- Rewrote key PBX reporting SQL query. 9 hour query reduced to 15 minutes.  $O(n^3)$  query rewritten to  $O(n)$ .
- Reduced reporting times from about 4 hours a day to about 5 minutes with automation in Python script.
- Junior architect remotely deployed computational clusters and enabled system-wide centralized control.
- Founder of (not yet official) DEF CON Group 254 in Waco, TX.

## PROFESSIONAL EXPERIENCE

**SOFTWARE ENGINEER II | AKAMAI TECHNOLOGIES, INC.**

**October 2014 – Present**

- Design and implement front end for Prolexic Routed product
- Diagnose, troubleshoot, and implement solutions for features, functionality, or bugs.
- Update and maintain legacy Prolexic Systems including SOCDash
- Elicit software engineering requirements from stakeholders using wire framing with Balsamiq Mockups 3
- Architect, design, and implement Dust.js templating for dynamic creation of router commands

**IT PROGRAMMER AND DEVELOPER | S2G - SUPPORT SERVICES GROUP, INC.**

**May 2014 – August 2014**

- Solve complex administration problems using Bash, Python, Expect, Cron, Mutt, Sed, and Grep.
- Maintain reporting frameworks using shell scripting (bash), Java, HTML, JSP and MySQL databases.
- Administer database system using MySQL, MySQL Workbench, SQL Scripting, and direct manipulation of DB system.
- Maintain IBM BladeCenter chassis, Fibre Channel, SAN, PBX, and Routing/Switching equipment.
- Maintain and update server infrastructure providing call routing, web server, file server, and database management

**QUALITY ASSURANCE ENGINEER | RED LAMBDA, INC.**

**May 2011 - November 2013**

- Designed and implemented web-based solutions to track and distribute employee product testing data.  
Completed web development using Linux, Apache 2, MySQL, and PHP.

**SYSTEMS ADMINISTRATOR AND PROGRAMMER | WYOMING ENERGY COUNCIL, INC.**

**April 2008 - December 2010**

- Developed/implemented an effective solution to track contract jobs using C#, ASP.NET, MSSQL, CSS, and HTML.

**JAVA PROGRAMMER | SNOWFLY, INC.**

**May 2010 – January 2011**

- Solved complex computing problems using Java, Spring WebFlow/MVC, MSSQL, and JSP.

## CREDENTIALS

**BACHELOR OF SCIENCE – COMPUTER SCIENCE** – August 2011 – University of Wyoming, Laramie, WY \* Association for Computing Machinery – Professional Member \* Air Force Association's Cyber Patriot Program – Mentor \* DEF CON 21/22 SkyTalks – Grunt \* DEF CON 22 – Goon \* 2013 National Collegiate Cyber Defense Competition – Orange Team  
\* UW Collegiate Cyber Defense Competition Team (5<sup>th</sup> place nationally 2011) – Captain/Member \* High Plains Chapter of ACM – President \* Wyoming Alpha Chapter Upsilon Pi Epsilon – Charter President