

Jacob Funke

(919) 946-3492 · JIFUNKS@GMAIL.COM · HTTP://JAKEFUNKE.ONLINE/

EXPERIENCE

Red Ampersand Inc.

Full Stack Engineer

November 2017 – Present

Feature development for the screenwriting industry web application, Coverfly

Development -

- Frontend development using Laravel Blade, PHP 7, Bootstrap, JavaScript, and jQuery
- Backend development using Laravel and MySQL, hosted on AWS EC2 and RDS
- Work with operations and customers to design, build, and test new features
- Upgrade internal tooling to improve development workflow

Operations -

- Triage of production-level bugs using Sentry
- Deployment of application to servers using Ansible

Telescope Inc.

Technical Operations Engineer

July 2016 – November 2017

Backend engineer and technical lead for television/social media fan-vote applications with millions of users

Development -

- Designed and built custom RESTful APIs to handle user votes submitted via API calls and social media
 - Projects included ABC's Dancing with the Stars, NBC's America's Got Talent, iHeartRadio Music Awards
- Developed templates and tools to automatically generate application code
- Refactored legacy code to optimize efficiency/performance and utilize modern technologies

Testing & Performance -

- Comprehensive testing and debugging of API performance, behavior, and reliability
- Developed custom test suite to detect potential issues with proprietary application code

Monitoring & Troubleshooting -

- Scaled, monitored, and supported live-on-television vote events on clustered AWS EC2 environment
- Assessed and triaged critical production-level technical issues across backend AWS services

SAS Institute

Support Engineer

February 2015 – June 2016

- Directly assisted customers and application engineers with SAS installation, deployment, configuration issues, and other problems related to SAS technology
- Helped create hotfixes and patches to address issues raised by customers
- Designed, built, and maintained team website/CMS to organize departmental resources
- Created tool to retrieve customer SAS deployment information on Windows and Linux

Renesas Electronics America

Embedded Software Engineer

September 2013 – March 2014

- Ported firmware code between CubeSuite+ and IAR Compilers for the RL78/L13 Capacitive Touch board
- Created application code examples and supporting documentation (C/C++)
- Developed product demonstrations exhibiting low power capabilities of Renesas microcontrollers
- QA/bug testing for Renesas embedded development toolkits

EDUCATION

North Carolina State University

August 2008 – May 2013

BS in Computer Engineering, BS in Electrical Engineering

- Graduated Magna Cum Laude
- Project Manager, Senior Design course – Team of 4 built a MIDI-controlled analog synthesizer

SKILLS

Python, JavaScript, jQuery, HTML, CSS, SQL, NoSQL, Java, C, C++, Git, GNU/Linux, Adobe Photoshop