

# Jacob Funke

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## 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