

Jacob Funke

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EXPERIENCE

Telescope Inc.

Technical Operations Engineer

July 2016 – Present

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

Development -

- Design and build custom RESTful APIs to handle user votes submitted via API calls and social media
 - Projects include: ABC's Dancing with the Stars, NBC's America's Got Talent, iHeartRadio Music Awards, American Music Awards, MTV Movie Awards, NBA All Star Fan Vote
- Develop templates and tools to automatically generate application code
- Work with frontend developers to design and debug UI for web & native applications
- Build meaningful deliverables from big data (Hadoop, Spark)

Testing & Performance -

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

Monitoring & Troubleshooting -

- Scale, monitor, and support live-on-television vote events on clustered Amazon EC2 environment
- Assess and triage critical production-level technical issues across backend AWS services

Administrative & Organizational -

- Contribute to, organize, and maintain code toolbox repository for team
- Task and issue/bug tracking with Jira

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
- Assisted customer migration from SQL databases to SAS Datasets
- Created proactive support materials for software installation, usage, and problem documentation

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
- Managed resource organization for development conferences, provided support for customers
- Ordered, assembled and tested circuit board prototypes

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
- DJ, WKNC 88.1 FM – Hosted weekly 2 hour radio show, live electronic music mixing for WKNC events

SKILLS

Python, Django, Javascript, jQuery, HTML, CSS, SQL, NoSQL, Java, C, C++, Git, SAS Platform, Adobe Photoshop