THOMAS FAULKNER

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Areas of Expertise

- Python programming for REST APIs (web backends), automated network provisioning, auditing, user tools, and reporting
- ReactJS Single Page Applications using ES6 and Redux
- Calix, Adtran, and Tellabs DSLAMs and Carrier Ethernet and ATM Switches
- Network ring technologies, including ERPS, RSTP, and Sonet on Adtran and Calix Access and Distribution equipment.
- Troubleshooting and debugging software, hardware, and network issues.
- Working with other teams including project owners, network standards, engineering, planning, and change management.
- Working with remote technicians and end-users to perform migrations or support.

Certifications and Education

- CCNP/CCNA – Cisco Certified Network Professional/Associate (Expired 2004)
- MCP – Microsoft Certified Professional certifications in the following:
    - Installing and Configuring Windows 2000 Professional
    - Installing and Configuring Windows 2000 Server
    - Managing a Windows 2000 Network Environment.
- CompTIA A+ Certified Hardware Technician
- Associates in Applied Science in Computer Networking
  1999 - 2004 Carl Sandburg College. Galesburg, IL
  Fields of study:
    - Cisco Networking Academy
    - Microsoft IT Academy
    - Network Security
    - Unix/Linux
    - Computer Programming, Hardware, and Software

Work Experience

Full Stack Software Engineer

RiverStone Software, 2017 - present

- Primary tools: Python, ReactJS, Redux, Django, Connexxion, Flask, AWS

- Implemented REST APIs using Swagger/OpenAPI Docker microservices in Python with Django, Flask, and Connexxion and Node with Express.
- Migrated projects to CircleCI 2.0 for automated unit-testing and linting.
- Built Amazon AWS infrastructure using Terraform.
- Created a server side HTML rendering microservice with Node using Express and React to handle rendering a print view of pages that were too complex to render using React in a browser in a timely manner.
- Lead and trained new developers.
- Broke down user stories to create backlog issues and to assign features to team.

Network Engineer II

CenturyLink - Operational Network Augmentation, 2012 – 2017

Recognized as Top Performer for 2016
Served as first point-of-contact and in-charge when supervisor out-of-office.

Programming and Automation:
- Developed tools that improved efficiency by increasing network maintenances per day per person from 5 to 25, a 500% increase.
- Developed an automated update system with usage tracking, remote program disablement, and an automated build system using Jenkins and GitLab.
- Automated auditing, provisioning, and reporting, of Access and Distribution network using Python, Perl, Talend DI, and multiple databases.
- Automated data collection from 54 Redback Broadband Remote Access Servers, enriched with market data, to provide planning a resource to aid in device selection for Centralized BRAS and network capacity migrations.
- Wrote automation tools for use on Linux servers and Windows desktops.

Network Engineering:
- Documented procedures for projects that the team had not done before, working with vendors to determine feasibility and the best procedure, redesigning the proposed configuration as required.
- Managed and performed proactive maintenances on network elements for voice, video, and data networks.
- Developed plans to augment capacity relief.
- Performed engineering work and applied research, development and design of new projects including physical and logical projects.

Customer Engineer II

NCR - Field Operations - 2005 - 2011

Accomplishments

Exceeded goal service level agreement metrics five years in a row with a rate of 97.5% of all metrics met with a goal of 85%.

Installation, Service, and Support

- PC and Server hardware (Dell, IBM, NCR, and Sony)
- Cisco network equipment (Routers and Switches)
- Automated Teller Machines (ATMs)
- Printers (Lexmark, HP, Tally/Genicom)
- Point of Sale Terminals (IBM and NCR)