

Dave Hammers

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December 10, 2019

Dear PacketFabric team,

I am responding to your job posting for Sr. Software Engineer in Core.

I had been with Extreme Networks for 14 years developing:

- switch/router protocol/drivers for Network Operating Systems
- embedded Python applications for on switch feature orchestration to automate customer deployments
- cloud applications for a single view of multi-site networks

The job posting asks for:

- Previous exposure to layer 2/3 networking protocols and concepts such as IPv4/6, VLANs, VPNs, BGP, etc.
 - Developed these for ExtremeNetworks EXtremeOS switching line
- A huge plus for actually doing any router/switch configuration or infrastructure automation.
 - Created the Python agent for Extreme's Zero Touch Provisioning
- GraphQL
 - Extreme Management Center provides a GraphQL API. Developed on prem and cloud client applications that interacted with GraphQL
- Experience with Python-based web application frameworks like Flask, Django, or Sanic.
 - Embedded Python / Flask on EXtremeOS
- Any experience interacting with physical world equipment - industrial, medical, etc.
 - Part of Extreme's Defender Python product team created a 1 port firewall for legacy medical equipment.

Below is my resume for your consideration.

Sincerely,

David Hammers

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Raleigh, NC 27613

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Senior Software Engineer in Core

Provide Customer-Focused Innovative Software Solutions

Hands on engineer, mentor, Agile Scrum lead, and project coordinator with business partners. Collaborating and working in fun inventive teams, creating differentiated software solutions using Golang / Python cloud applications, to embedded C / Python, to mainframe. Strong aptitude for learning new skills to complement experience and find the best outcomes. Work well in small collaborative teams accomplishing big results.

Technical Skills

Languages:	Golang (Go), Python, C, SQL, bash
Platforms:	Linux
Google Cloud (GCP):	Serverless, AppEngine(Elastic Beanstalk), CloudFunctions(lambda), CloudRun(Fargate), GCP SDK, CloudSQL, Firestore NoSQL DB, Firebase NoSQL DB, Imagestore, Pubsub, IOT Core, Microservices
AWS	AWS Cloud Practitioner Essentials course
Container:	Docker
Interfaces:	RabbitMQ, REST, JSON, HTTP / HTTPS, Websockets
Databases:	PostgreSQL, Ignite, GCP CloudSQL, Firestore NoSQL DB, Firebase NoSQL DB, Imagestore, GraphQL
GrTools:	git, Github, Openapi / Swagger, JIRA, Zoom, MS Teams, Slack
SDLC	Agile Scrum, Kanban
Network Management:	HTTP, JSONRPC, REST, SNMP, SSH, Python Applications
Network Protocols:	Layer 2, Layer 3, POE, RFC1588(PTP), Sync Ethernet
Embedded Drivers:	Broadcom switches, Broadcom PHYs, I2C, POE microcontroller, optics, motion sensor, IOT

Professional Experience

Extreme Networks, Morrisville, NC

2006 - 2019

Manufacturer Ethernet switches, routers and wireless AP's.

Senior Software Engineer / Director

2009 –2019

Served as part of digital transformation to software company, innovation team and developed Golang (Go) / Angular applications for container, GCP serverless, AppEngine, CloudFunctions (lambda), CloudRun deployments, skipping over Kubernetes approach for lower OpEx.

- Developed SaaS cloud Go backend applications using serverless technologies: AppEngine, CloudFunctions, CloudRun, Firestore NoSQL DB, Firebase NoSQL RTDB, Pubsub, CloudSQL. Cloud serverless technologies significantly reduce operational cost over dedicated compute / container deployments.
- Created Go (Golang) REST API / Openapi / Swagger as reusable common interface contract across microservices, reducing development time by having predefined microservice objects.
- Devised simple 1 command deployment Google Cloud Integration Automated CI Docker containers for GCP deployment: AppEngine, CloudFunctions and CloudRun automating deployment complexity for the team
- Invented real-time HTTP, small footprint firewall agent using GCP RTDB reducing GUI interaction with on premises applications from 500ms-1s to 100-200ms, improving user GUI experience.
- Created common Go package library to be shared across teams for applications functions including security and common DB methods, simplifying work load for application engineers.

- Empowered QA to with Go app to test server utility for Extreme's switching Zero Touch Provisioning REST interface, simulating 10K Ethernet switches for cloud stress testing.
- Supported sales by creating simple Go app for large customer deal, impressing customer with initiative and responsiveness, and winning deal.
- Developed Zero Touch Provisioning feature, greatly simplifying customer switch deployments.
 - Feature is cornerstone of modern customer network deployments.
- Established customer Python application community, educating customers and sales teams on ability to customize switching for networks.
- Published Python switch orchestration applications for customer community. Grass roots initiative to build Python customer community for switching products
 - https://github.com/extremenetworks/EXOS_Apps; Seed applications for community contributions.
- Designed / created YANG->REST API Python code generator, significantly streamlining REST implementation.

Senior Software Engineer/Manager

2007 – 2013

Led software development for new switch hardware project budgets ranging from \$500K to \$4M.

- Served as hands-on lead, growing product line from 2 to 60+ ethernet switching products in 7 years for 60% of company's revenue
- Transferred development from California team to RTP, NC and India, reducing product development costs.
- Adapted NOS and wrote drivers for unique Ethernet switch for Ericsson, completing 3 month, one-man project, achieving 60% margins for 5 years exclusive to Ericsson.
- Developed drivers for Broadcom switch chips, POE controller, I2C, optics, 1588(PTP), Sync Ethernet, motion sensors, LEDs, for each new switch hardware family optimizing development and time to market.
- Provided simple LED locator feature that enabled customers to visually find switches in lab racks.
 - Very positive customer feedback for a simple feature.

Senior Software Engineer

2006 – 2007

Led multi-site key feature development

- Developed Ethernet stacking feature for standalone switches, allowing customers pay as they grow instead of initial up-front cost of chassis systems.
- Coordinated 4 teams across (California, RTP, India, Taiwan) in 17-man year effort, producing 1 of the most successful customer features for entire product line still sold today.
- Created user centric whitepaper, resulting in clear, easy to follow, user documentation.
 - Tech pubs said "this is the best document they have ever seen from engineering"

Additional Relevant Experience

Paradyne Networks/Zhone Technologies, Largo, FL, **Tech Manager / Architect / Engineer**

Superior Electronics Group, Sarasota, FL, **Systems Group Manager / Architect / Engineer**

Sentient Networks, Sarasota, FL, **Embedded Software Engineer**

IPC Information Systems, Sarasota, FL, **ATM Software Architect / Lead Engineer**

Loral Data Systems, Sarasota, FL, **ATM Software Architect / Lead Engineer**

DAV Systems, Boca Raton, FL, **President, Software Contract Services**

Datavision, Inc., Deerfield Beach, FL, **Vice-President Data Processing / Engineer**

City of Oak Park Data Center, Oak Park, MI, **Programmer / Manager**

Detroit Institute of Technology Data Center, Detroit, MI, **Programmer**

Education

Coursework completed, Detroit Institute of Technology, Detroit, MI