

DAVE HAMMERS

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SENIOR SOFTWARE ENGINEER / ARCHITECT

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, and creating differentiated software solutions using Golang / Python cloud applications to embedded C / Python to mainframe. Strong aptitude for learning new skills with complement experience and finding best outcomes. Work well in small collaborative teams accomplishing big results.

TECHNICAL SKILLS

Languages:	Golang (Go), Python, C, SQL, bash
Platforms:	Linux
AWS	Elastic Container Service (ECS), Elastic Cloud Compute (EC2), Serverless Lambda, Step Functions, Postgres SQL RDS, DynamoDB NoSQL, Simple Storage Service (S3), Virtual Private Cloud (VPC), Elastic Load Balancing (ELB), Route53, Kinesis, Simple Notification Service (SNS), Simple Queue Service (SQS), API Gateway, CloudWatch, CloudFormation
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
Container:	Docker
Interfaces:	Kafka, RabbitMQ, REST, JSON, HTTP / HTTPS, Websockets
Databases:	PostgreSQL, Ignite, GCP CloudSQL, Firestore NoSQL DB, Firebase NoSQL DB, Imagestore
Tools:	git, Github, Openapi / Swagger, JIRA, Zoom, SumoLogic, 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

MEDIAMATH, Durham, NC
AdTech Demand-Side Platform

2020 - Present

Senior Software Engineer

2020 - Present

Serve as part of creatives team. Pioneering transition to Golang (Go) applications for AWS ECS/Lambda deployments.

- Pioneered Go reusable framework enabling rapid deployment of micro-service applications reducing feature development time to market from months to weeks.
- Develop cloud Go micro-services using the framework for both AWS container and serverless technologies interfacing to third party services for creatives(ads) malware scanning and deployment. One service reduced expenses from \$155,000/month to target budget of \$50,000.

EXTREME NETWORKS, Morrisville, NC
Manufacturer Ethernet switches, routers, and wireless AP's.

2006 - 2019

Senior Software Engineer / Director

2009 - 2019

Served as part of digital transformation for software company and innovation team. 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 reducing 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 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 standard Go package library to be shared across teams for applications functions, including security and common DB methods, simplifying workload for application engineers.
- Empowered QA 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 client with initiative and responsiveness, and winning contract.
- 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, leading to grassroots initiative to build 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 straightforward element.

EXTREME NETWORKS (Continued)**Senior Software Engineer****2006 - 2007**

Spearheaded 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 / ZHONG 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