

126 3rd Place

Brooklyn, NY

(206) 914-8967

ian.furst@gmail.com

IAN FURST | ENTERPRISE STORAGE ENGINEER

I'm an accomplished enterprise-class systems engineer with a strong focus on new technologies in storage and introspection and with more than a decade of experience in implementation and automation.

TECHNICAL INVENTORY

Storage Technologies | MapR/Ezmeral Data Fabric, Ceph, Rancher, Gluster, Isilon, you name it

Technologies | Python, Kubernetes (k8s and k3s), Docker, Ansible, Terraform, Prometheus, Slurm, Beowulf, VMware, Active Directory, OpenLDAP, NIS, BIND, bash

Platforms | Debian/Ubuntu, SUSE/SLES, Redhat/Rocky, FreeBSD and other open-source platforms, OneFS, HP-UX, Solaris

EXPERIENCE

HEWLETT-PACKARD ENTERPRISE | Expert Systems Engineer | 06/2019 - 12/22

Responsible for implementing and automating fundamental data storage and introspection elements of a cloud orchestrator

- Spec'ed out and built open source storage layers for an integrated cloud orchestrator, including Ceph, DRBD, gluster, Ezmeral, and more
- Automated the deployment of these layers in both python and bash
- Wrote deployment documents, specifications, and one-sheets to condense technical solutions for consumption by a broader audience.
- Built observability layers introspection layers for HPE's cloud

ATSU | CONSULTING ENGINEER | 2019 - 2020

Led the expansion of ML-based HPC chargeback software into new markets

- Helped to expand product focus into industries across the HPC spectrum, eventually leading to a 2020 acquisition
- Automated product deployment to aid sales efforts
- Headed up documentation efforts for the product, its extensibility, and its automation

ISILON SYSTEMS/EMC | SENIOR SOFTWARE QUALITY ENGINEER | 2014 - 2018

Led QA in protocols, big data, and NAS replication, and drove automation efforts

- Initiated a cross-group effort to develop a RESTful API-based platform, leveraging technologies like puppet and Infoblox, to automate the creation and deployment of virtualized NAS environments
- Designed and deployed numerous “big data” environments from all around the Hadoop ecosystem
- Identified deltas in team capabilities and delivered trainings and technical documentation to level-up teammates
- Debugged enterprise-class customers’ issues with protocol-level savvy, specifically Hadoop/HDFS, NDMP, RESTful APIs, and proprietary inter-cluster sync software, in addition to traditional file system-level issues

F5 NETWORKS | ENTERPRISE NETWORK ENGINEER | 2012 – 2014

Accountable for supporting enterprise-class customers for Big-IP and investigating emergent technologies

- Designed and drove integration projects to assimilate F5 technologies into legacy enterprise environments.
- Initiated and directed the effort to integrate, document, and mentor associate engineers on a new business acquisition
- Authored proofs of concept and technical presentations
- Served as technical expert for development, sales, and client support
- Investigated software defects, implemented bug fixes
- Provided educational and technical support to sales teams and end users

TALON DATA SYSTEMS | SYSTEMS ENGINEER/NORTHWEST DEVELOPMENT | 2011 – 2012

Drove technical sales of storage solutions into new enterprise environments

- Devised integration solutions for integrating NAS and SAN technologies into enterprise-level pipelines
- Drove projects from conception to delivery
- Created training and documentation for SAN and NAS products and workflows
- Distilled client requirements into technical specifications for an enterprise-level secure WAN accelerator
- Created supporting tools for WAN acceleration product
- Oversaw market expansion in Bay Area for SAN and NAS storage products and sales
- Drove rapid sales growth of Netflight bandwidth accelerator

ISILON SYSTEMS/EMC | PRINCIPLE SYSTEM ENGINEER | 2009 – 2011

Architected storage elements of pipelines for customers across the Eastern Seaboard

- Integrated Isilon technology solutions into enterprise-level pipelines
- Provided sales and customer training support to East Coast systems engineers
- Designed and presented proofs of concept for customer workflows
- Condensed sales cycle by months through technical evangelism and aggressive client education initiatives

ISILON SYSTEMS/EMC | Applications Engineer/Engineering Support Engineer | 2008 – 2009

Led support initiatives for diverse NAS environments

- Collaborated with developers in the design and distribution of patches to kernel and application level subsystems
- Wrote code fixes in python, C, and perl
- Conducted beta testing of code revisions, provided interface between development and beta clients
- Mentored new hires and members of the technical support team

ISILON SYSTEMS | Special Assignment | 2009

Worked with major biotech firms to define and implement NAS-oriented pipelines

- Cultivated and nurtured lasting relationships with Isilon customers in the Northeast region
- Provided strategic account management and addressed customer service requirements
- Worked as a liaison between the sales team and the customer's technical resources to drive sales into new environments
- Developed pipeline integration solutions in python and perl

ISILON SYSTEMS | TECHNICAL SUPPORT ENGINEER | 2008

Supported customer and sales teams for an enterprise-class NAS product

- Evaluated and developed solutions for escalated enterprise level customer support issues
- Designed and documented solution methodologies and reproductions of customer problems

UNIVERSITY OF CALIFORNIA-RIVERSIDE BOURNS COLLEGE OF ENGINEERING ASSISTANT SYSTEM ADMINISTRATOR | 2003 - 2004

Basic web developer, Lead for Helpdesk-related work

- Developed perl- and php-based web solutions
- Aided in development of Beowolf-based clustered computing solutions in Fortran99
- Oversaw helpdesk operations for the college

COASTSIDE.NET | ASSISTANT SYSTEM ADMINISTRATOR | 2003 - 2003

Supported enterprise-class customers for Big-IP and investigating emergent technologies

- Administered and maintained Sun and IRIX based systems
- Created community outreach and CRM solutions using PHP code
- Built out and evaluated QoS/availability data for city-wide meshed wireless project

EDUCATION | PARTIAL COMPLETION OF BS IN PHYSICS | 1999 - 2003

- 4+ years at UC Riverside, pursuing a BS in Physics.

EXPERTISE

<ul style="list-style-type: none"> • systems integration • technical support • proofs of concept 	<ul style="list-style-type: none"> • enterprise solutions • troubleshooting 	<ul style="list-style-type: none"> • cloud computing • bioinformatics • collaboration
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<ul style="list-style-type: none">• storage engineering	<ul style="list-style-type: none">• technical communications• sales support	<ul style="list-style-type: none">• testing/modeling• Deployment automation
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