

FRANK CASHIO

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SYSTEMS ADMINISTRATION & HIGH-PERFORMANCE COMPUTING

Systems administrator and software engineer specializing in enterprise Linux, high-performance computing, infrastructure automation, and Slurm workload management. Combines 20+ years of software development experience with hands-on administration across Debian, Ubuntu, RHEL, and Rocky Linux environments. Develops reliable tooling that reduces manual work and improves operational workflows.

TECHNICAL SKILLS

Systems & HPC: Linux (Debian, Ubuntu, RHEL, Rocky Linux), Windows, Slurm, Redfish, BIOS management, InfiniBand, NFS and parallel storage, NVIDIA GPU nodes and CUDA drivers, PXE/Warewulf provisioning, MPI, monitoring

Automation & Programming: Bash, Python, Go, TypeScript, JavaScript, C++, C

Cloud & DevOps: GCP, AWS, Docker, Git, Jenkins, Ansible, CI/CD, N8N

Applications & Data: Next.js, React, MongoDB, Firestore, SQL, REST APIs

Eligibility: U.S. citizen, eligible for DOE/DoD security clearance

PROFESSIONAL EXPERIENCE

Software Engineer & Systems Administrator | Atipa Technologies

Lawrence, KS | Apr 2025–Oct 2026

Promoted from Junior Linux Systems Administrator to Software Engineer within four months while retaining systems administration responsibilities

- Administered 200+ Linux cluster nodes and 100+ workstations with Slurm workload scheduling as the primary Linux and HPC owner on a three-person team
- Maintained, troubleshooted, and optimized enterprise Linux systems across multiple distributions
- Developed Saba, a Bash and Redfish tool that cut per-node BIOS configuration from about 10 minutes hands-on to under one minute unattended, a 90%+ reduction
- Built and maintained an enterprise RMA tracking application using Next.js, TypeScript, MongoDB, and FedEx APIs, replacing a spreadsheet and manual FedEx lookups and saving about 5 hours per week
- Streamlined operational workflows through infrastructure automation and real-time package tracking
- Configured and supported HPC systems delivered to NASA JPL, Beyond New Horizons (AEDC), PNNL, Jefferson Lab, and the University of Chicago, including systems of 50+ nodes valued at \$500K and up

SELECTED ENGINEERING PROJECTS

Saba HPC BIOS Automation

- Automated BIOS configuration across HPC systems through Bash and the Redfish API
- Replaced repetitive manual configuration with a consistent, reusable workflow

Enterprise RMA Tracking Application

- Integrated FedEx APIs with a Next.js and MongoDB application for package tracking
- Centralized RMA workflow information for the operations team

CraveSmart (cravesmart.app)

2025–Present

- Designed GCP authentication, cloud data storage, and external USDA API integrations for CraveSmart, an iPhone app live on the App Store with 25+ users

EDUCATION

University of Kansas | Coursework in Computer Science and Physics