

Frank Petrilli

Software Developer & Network Engineer

More | <https://frank.petrilli>
<https://github.com/FrankPetrilli>

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SKILLS & PROFICIENCIES

Development

Languages ● Concepts ●

- C / C++ / Rust
- C# / Java / Elixir / Erlang
- Python / Ruby (Rails) / Perl
- Javascript / Node.js / jQuery / React
- PHP / ASPX
- SQL / NoSQL (ElasticSearch, Mongo)
- x86 / MIPS Assembly
- Source control (git, svn, p4, Hg)
- Object-oriented programming
- Platform portability
- Mobile Development (Android & iOS)
- Continuous Integration / Deployment
- Cloud / GPGPU Parallel Processing
- Desired-State Configuration (Chef, Ans)
- Database Schema Design

Networking & Virtualization

Networking ● Virtualization ●

- Cisco / Juniper / MikroTik / Ubiquiti
- BGP / OSPF / IS-IS Dynamic Routing
- IPsec / L2TP/IPsec / OpenVPN VPNs
- SDN (VXLAN & OpenFlow)
- Load Balancing (F5 & Citrix)
- Carrier-Class Networks (MPLS / VPLS / Metro-E)
- High-Performance Wireless Backhaul
- TDM (PDH/SONET/SDH) transport
- Fiber-Optic & Optical Transport (DWDM)
- KVM / Xen / VMWare ESXi / Hyper-V
- CloudStack / OpenStack
- Ceph Distributed Object Store
- GlusterFS Distributed Filesystem
- Docker / LXC Containers
- Linux & Windows Guests
- Kubernetes (K8S) Container Orchestration

EDUCATION

- **Computer Science (Networking & Distributed Systems)**
Bachelor of Science in Computer Science
Eastern Washington University | Cheney, WA
University of Washington | Seattle, WA
- **Computer Science (Networking & Virtualization)**
High School
Central Valley High School | Spokane, WA

WORK EXPERIENCE

- From 2018
Technical Solutions Engineer
Google
Internet Software
Technical Solutions Engineer on Google Cloud Platform product
Combination of Software Development, Networking, and Systems Administration experience
Experience building applications and services at "Google-scale"
Maintain and build on Google's distributed computing infrastructure
- Summer 2017
Software Engineering (Contract)
F5 Networks
Networking Appliances
Developer on Application Connector cloud-enablement project
Developer of FPGA-accelerated AES tunnel implementation
Systems engineering role for Product Development infrastructure
Developed containerized applications for deployment into cloud platforms facilitating app delivery
- 2016 to 2018
Software Engineer
Protocol Labs
FOSS Decentralized Networks
Member of a diverse, distributed team from all across the world
Open-source developer and contributor to IPFS project and supporting infrastructure
Implementation of global scale Kubernetes cluster
Integrated with a distributed, multinational team
- From 2014
Owner / Network Architect
xyTel Inc.
Internet Service Provider
Lead Architect for regional Internet Service Provider network
Fully-routed MPLS network backbone
Advanced metro ethernet network service offerings
Long-haul microwave and optical backhaul
- 2015 to 2016
Lead Software Developer
Stay Alfred Vacation Rentals
Hospitality
Lead Architect for proprietary vertical market CRM/ERP application (Node.js / Rust)
Design of PostgreSQL / MongoDB Schema
Automation of Vagrant/Ansible-deployed application stack & OpenStack Dev/Test Environment
Network / VoIP lead architect, managing office and datacenter networking / mid-size call center
- 2012 to 2015
Cloud Engineer
Intrinum Inc.
Managed Services
Architect for a large-scale CloudStack public cloud virtualization system & Ceph Storage backend
Network lead, managing datacenter switching & routing
Linux & Windows Systems Engineer, maintaining existing and new service infrastructure
Security analyst, assessing, testing, and repairing our network against security threats

CERTIFICATIONS



CompTIA A+
COMP001020351197
December 2011



CompTIA Network+
COMP001020351197
February 2013



CompTIA Security+
COMP001020351197
May 2013



Microsoft Certified Professional
Windows Operating System
February 2013



Microsoft Technology Associate
Windows Networking
March 2012



Microsoft Technology Associate
Windows Security
April 2012



Microsoft Technology Associate
Windows Server
April 2012

RECOGNITIONS & AWARDS



1st Place Network Design
2014 FBIA Nationals | 1st place
Nashville, TN



2nd Place Networking Concepts
2013 FBIA Nationals | 2nd place
Anaheim, CA

REFERENCES



Alex Marmon
Colleague @ Stay Alfred
208.714.7274
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Russ Lohman
Principal Systems Engineer @ F5
509.944.3306
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Adam Huson
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LANGUAGES

