CHRIS A. TREES

SR. PROGRAM MANAGER & RESEARCH DEVELOPER

💼 EXPERIENCES

present | 2019

Research what is next...
On sabattical   📍 Cedar Falls, IA (and remote)

- Researching SDN, SDS and CI/CD methods for Bare Metal infrastructure.
- Researching AI data systems for learning feedback algorithms.
- Researching deployment of Blender grid rendering using Bare Metal infrastructure.
- Researching automated infrastructure deployment and USDA broadband efforts for small rural communities.
- Researching building Blockchain foundations for IoT Edge Community project

2018 | 2012

Research Developer
Mail Services, LLC   📍 Des Moines, IA (remote)

- Researched NFC production process to leverage USPS commercialization incentives.
- Evaluated and integrated AGILE, CI/CD, QA testing and system virtualization.
- Evaluated production site maintenance processes. Production site is PHP web stack with restricted storage, network, and SQL database.

2012 | 2010

Sr. Software Engineer / Field Sales Engineer
OvalPath   📍 San Jose, California (and remote)

- Social Mobile communications platform serving the commercial nuclear power market.
- Developed HTML5 map annotation for mobile field devices.
- Established QA Test Automation and build documentation.
- Worked as Sales Engineer with CEO to adopt the platform to specific needs of new customers.
- Acquired by CurtissWright: http://www.marketwired.com/press-release/curtiss-wright-flow-control-acquires-oval-path-nyse-cw-1837177.htm

2010 | 2002

Consultant
CAT Services   📍 Cedar Falls, Iowa

- Croft Utility Partners: Cloud infrastructure design for small communities.
- Grasshorse Animation Studio: Grant management for "Proto-Motion" mixed media stop motion animation.
- Vianeta Communications: Developed tools and training materials for data center installation and testing.

2002 | 2001

Founder / Architect
Pantera   📍 Mountain View, California

- Pantera attempted to build a distributed storage and compute engine for accelerated batch processing.
- A network grid matrix was used to distribute storage, data base and compute algorithms across servers.

2001 | 1985

Earlier Projects
Company & Project per line   📍 Various, California

- Fusion One: Integration of Levient redundant high availability server infrastructure stack into multiple data centers.
- Monggo: First remote desktop systems using WAP enabled devices (cell phones) as the terminal access point.
- Vertical Networks: Lead hardware & mechanical design for integrated LAN & telephony product "Instant-Office".
- Rapid City Communications: Built high-speed-density backplane for VLAN switch.
- SkyStream: FPGA design for video streaming switch.
- Sun Microsystems: Netra group consultant for an embedded user control console.
- General Magic, Inc: Support partner development systems. Create touch based magic cell phone prototype.
- Hughes LAN: ATM network switch hub chassis backplane and FPGA based control bus.
- Lockeed MSC: P387 - Video display subsystem control board and test station.

🎓 EDUCATION

1985 | 1980

B.S. Electrical Engineering
Iowa State University   📍 Ames, Iowa

Math Honors, Nuclear Engineering Studies

Courses (selective list)

- Docker and Kubernetes
- DevOps: Advanced Kubernetes
- DevOps: Automation with Terraform
- Ansible Automation
- Cumulus Linux and Ansible
- GNS3 Advanced Switching

- Node with React
- React Native
- Flutter, Dart & Firebase
- Progressive Web Apps (PWA)
- Appium Mobile Automation Testing
- TBD

CONTACT INFO

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MANAGEMENT SKILLS

Program Management
Project Management
Team Management
Engineering Management
ECO Management
Release Management
IT Management
Facilities Management
Grant Writing
Start-up Consulting
Strategic Partnerships
Networking
Venture Funding

TECHNICAL SKILLS

Cloud Computing
Agile Methodologies
Hardware Architecture
FPGA & ASIC Design
Embedded Systems Design
Firmware Design
TCP/IP Stack
VirtualBox, VMWare & Hyper-V
Docker & Kuberneties
Software Development
CI/CD/CO & SDN
LAMP Web Stack
Node, JS, React & Angular
Dart & Flutter
Progressive Web Apps

RANDOM SKILLS

High Engergy Electrical
Grain Combine Repair
Grain Dryer Repair
Electronic Repair
Farm Management
Tax and Accounting
Stock Boy
Castle Rock Climber
Roof Repair
Sewer Repair
Vehicle Repair
Home Construction
IoT Home Automation Hacker