

CHRIS A. TREES

SR. PROGRAM MANAGER & RESEARCH DEVELOPER

EXPERIENCES

2018
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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 Angular, Ember, React, Vue, Backbone and Polymer.
- Intro Team for Atlassian JIRA, Confluence, Bitbucket and Bamboo toolchains.
- Evaluated production site processes for refresh and maintenance sustainability.
- Production site was a PHP frontend with restricted storage, network, and SQL database.

2012
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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.

2010
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2002

Consultant

CAT Services

📍 Cedar Falls, Iowa (and remote)

- **Croft Utility Partners** Cloud infrastructure design for small communities.
- **Grasshorse Animation Studio** "Proto-Motion" mixed media stop motion animation.
- **Vianeta Communications** Training materials for data center installation and testing.

2002
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2001

Founder / Architect

Pantera

📍 Mountain View, California

- Matrix grid network of distributed storage and compute engine for accelerated batch processing.
- Using COTS servers, a grid of indexed storage was used to maintain matrix reduce results in cache.
- Pantera IP was a matrix index tracking of distributed cache algorithm partials for performance.

2001
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1985

Previous Millennium

Company & Project per line

📍 Various, California

- **Fusion One** - Integration of Levient redundant high availability server infrastructure stack.
- **Monggo** - Remote desktop service using WAP devices (cell phones).
- **Vertical Networks** - Lead hardware & mechanical design for 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.
- **IKOS** - Field Applications Engineer for ASIC simulation products.
- **General Magic** - Partner development systems. Created touch based magic cell phone prototype.
- **National Semiconductor** - Custom FPGA for ISO-Ethernet product development kit.
- **Hughes LAN** - ATM network switch hub chassis backplane and FPGA based control bus.
- **The Engineering Dept (TED)** - PC Transporter Apple II card used to run IBM Software.
- **Lockeed MSC** - P387 - Video display subsystem control board and test station.

EDUCATION

2018
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2016

Courses (selective list)

- Docker and Kubernetes
- DevOps: Advanced Kubernetes
- DevOps: Automation with Terraform
- Ansible Automation
- Cumulus Linux and Ansible
- GNS3 Advanced Switching
- React, Redux & Firestore
- Flutter, Dart & Firebase
- Progressive Web Apps (PWA)
- Appium Mobile Automation Testing
- Machine Learning with Python & R
- Ethereum Developer
- Xamarin: Android and iOS shared C# Code
- Web Development with Go
- Active Directory Lab using Hyper-V
- Complete Blender Creator (3D Modelling)

1985
|
1980

B.S. Electrical Engineering

Iowa State University

📍 Ames, Iowa

Math Honors, Nuclear Engineering Studies

CONTACT INFO

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MANAGEMENT

Program Management
Start-up Consulting
Strategic Partnerships
Intrapersonal Networking
Grant Funding
Venture Funding

IT MANAGEMENT

DevOps & SecOps
CI/CD/CO
SDN & SDS
OpenStack, Mesos & Proxmox
VirtualBox, VMWare & Hyper-V
Docker & Kubernetes
Nagios & WhatUp GOLD
TheDude & SolarWinds
TCP/IP Stack
DNS Bind
iPXE & UEFI
SNMP
Snort
Wireshark
pfsense, ClearOS & Smoothwall
Active Directory
Kerberos
OpenAFS
Windows Defender
LDAP

SOFTWARE

Agile Methodologies
Extreme Programming (XP)
Cloud Computing
Release Management
LAMP Web Stack
MySQL, Delphi, MariaDB
PHP, Python, Bash
Node, JS, React & Angular
Dart & Flutter
Progressive Web Apps

HARDWARE

ECO & BOM Management
Hardware Architecture
Firmware Design
FPGA & ASIC Design
Verilog, VHDL
OrCad, PADS, ProTel