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# Chris Arges

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## Summary

Accomplished Principle Software Engineer and Senior Engineering Manager. Confident working across large and small engineering organizations. Experienced working in dynamic environments and learning technologies quickly. Interested in technical, business, and execution excellence in software.

## Skills

- Languages - Golang, Rust, C, Python, Bash
- Technologies - Linux Kernel, Debian Packaging, Ansible, Terraform, Docker, AWS, Kafka, ClickHouse, AppArmor
- Interests - Systems, Linux, Security, Computer Networking, Cryptography, Data Pipelines, Distributed Computing
- Leadership - Managing Engineers, Managing Managers, Providing Feedback, Coaching, Mentoring

## Experience

**Senior Engineering Manager** *Austin, TX*
*Cloudflare* *May 2021 – Current*

- Responsible for twenty reports across five Network Services engineering teams.
- Coached and grew software developers and engineering managers in the US and EU.
- Recruited and hired talent, planned roadmap, managed on-call policies and incident resolution.
- Wrote technical articles, worked on proof of concepts, developed processes for teams.
- Deep dives into Nftables, eBPF, Linux networking, Data Pipelines, and sampling data at scale.

**Engineering Manager** *Austin, TX*
*Confluera* *July 2020 – April 2021*

- Managed multiple teams of engineers owning Agent and Devops components of product.
- Implemented Product strategy and vision for Agent and Devops directions in the company.
- Managed Customer deployments, operationalized backend using industry best practices.
- Development of Key Features of Product such as Container Metadata and Blocking Response.

**Member of Technical Staff** *Austin, TX*
*Confluera* *October 2018 – July 2020*

- Wrote Linux kernel module for tracing system calls via Tracepoints and delivering to Userspace.
- Wrote Golang agent responsible for transmitting system calls and audit events to backend.
- Wrote framework for deploying clustered backend environment via Terraform and Ansible.
- Ported Golang project from Linux to Windows enabling our first few major sales of our product.

**Engineering Manager** *Austin, TX*
*Vectra AI* *April 2018 – October 2018*

- Managed team of seven engineers owning Platform and Devops components of product.
- Maintained regular cadence of releases, build pipelines and test infrastructure.
- Worked with external vendors for manufacturing and installing product.
- Created hardware specifications for Appliance and worked with Vendors to procure large volumes are hardware.

**Lead Software Engineer** *Austin, TX*
*Vectra AI* *October 2016 – April 2018*

- Developed appliance telemetry system to monitor health of services and provide system metrics.
- Worked on image building and provisioning software for the appliance.
- Migrated all deployed appliances onto a supported and patched Linux distribution release.
- Bring-up for new appliance platforms using Vectra software.

**Kernel Team - Software Engineer** *Austin, TX*
*Canonical* *November 2014 – October 2016*

- Prototyped and designed Canonical Livepatch. Co-ordinated with teams across the company.
- Numerous bug fixes for Ubuntu Linux kernel as well as test-case additions.
- Produced numerous contributions to upstream projects such as the Linux Kernel.
- Reviewed patches and assisted with the Ubuntu kernel release process.

**Sustaining Engineering - Technical Team Lead** *Austin, TX*
*Canonical* *October 2011 - November 2014*

- Lead team of engineers, synced with account managers to prioritize and fix bugs in Ubuntu.
- Ubuntu core-developer and contributor of many bug-fixes and package updates.
- Support stable releases of Ubuntu by handling Linux kernel bugs quickly and effectively.
- Handled critical priority cases, attended customer meetings, and on-site debugging.

**Staff Software Engineer** *Austin, TX*
*IBM - Linux Technology Center* *July 2007 - October 2011*

- Linux kernel bring-up on embedded POWER architecture processor.
- Led team in utilizing a regular expression hardware co-processor on an open-source project.
- Created software library for co-processor functionality on an embedded POWER processor.
- Created OpenSSL engine for utilizing cryptographic hardware co-processor functionality.
- Integrated project-wide global development into an internally released SDK.

## Education

**University of Texas** *2010 – 2012*
*Masters of Science in Computer Engineering, Software Engineering*

**Purdue University** *2003 – 2007*
*Bachelors of Science in Computer Engineering with a Minor in Mathematics*

## Publications

**Cloudflare** *2021 – 2023*
Cloudflare Blog Articles

**University of Texas** *August 2012*
Data-Mining The Ubuntu Linux Distribution for Bug Analysis, Resolution

**LinuxCon 2010** *August 2010*
User-Space Accelerators on Wirespeed Power Processors