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📍 Portland, OR

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🌐 cincodenada.com

🔗 github.com/cincodenada

Summary

10 yrs experience building cloud-native applications, from database design and server management up through backend and frontend development. Most recently worked on the backend of a high-throughput intelligent DNS service, managing a highly-distributed fleet of global DNS servers.

Proficiencies

Experienced in:

C++17, Javascript, Python, Puppet, BigQuery, SQL, PHP, HTML5/CSS3

Familiar with:

C, C#, Java, R, Node.js, Chef, Ansible, Perl, Bash scripting

Dabbled in/interested in:

Rust, Go, Scala, Haskell, Ruby, Piet, Z80/M8C/MIPS Assembly

Tools and Platforms:

Vim, Git, Vagrant, Docker, Datadog, LAMP stack, GNU utilities

Experience

Senior Software Engineer 2

Jul 2017 – Oct 2019

Citrix (acquired Cedexis)

Portland, OR

- Maintained cloud-native DNS platform using 9 billion daily measurements to make 3 billion daily decisions
- Led implementation of just-in-time DNSSEC in our dynamic DNS server, consulting RFCs and real-world usage
- Integrated new datastream into pipeline, working with partner vendor to identify and analyze key metrics
- Rearchitected and took ownership of connection manager that maintains tunnels between our 150+ servers
- Analyzed and provided visibility into BigQuery usage costs, immediately reducing our monthly spend by 20%
- Used perf and flamegraphs to identify and rewrite bottlenecks, e.g. reducing config read time by 30%
- Acted as liaison between teams, helping to devise solutions that accomplish everyone's goals

Founding Engineer

Sep 2009 – Mar 2017

SERPs.com

Portland, OR

- Built SaaS web analytics application from the ground up to over 400 customers and \$60k MRR
- Mentored junior developer, assigning tasks, assisting with questions, and introducing to the codebase
- Developed Puppet spec to manage our infrastructure, increasing reliability and reducing deploy time 10x
- Provisioned machines from diverse providers including Linode, DigitalOcean, AWS, and colocated bare-metal
- Maintained and improved queue-worker cluster using several stages to process data from >500k daily jobs
- Managed MySQL servers and schema for a midsize database with >1m rows added per day
- Supervised migration to sharded HA database cluster using data warehousing, improving loadtime of main page >100x
- Wrote hundreds of unit tests to cover thousands of LOC with custom Jenkins continuous integration server
- Built monitoring system with TICK stack and Grafana, improving issue response time and speeding diagnosis

Key skills:

- Full-stack development
- Building distributed multi-cloud applications
- Performance-sensitive, high-throughput systems
- Administering Linux systems
- Quickly understanding large projects and systems
- Mentoring and encouraging junior coworkers
- Engaging with peers to resolve disagreements

Other Interests:

- Passionate about charts, graphs, maps, and other beautiful data
- Continued personal experience working with microcontrollers and EDA (KiCad, Eagle)
- Amateur astronomer

IT Specialist

Seattle Fire Department

Sep 2010 – Jun 2011

Seattle, WA

Summer Software/Hardware Intern

Fluke Corporation

Jun 2010 – Sep 2010

Everett, WA

Education

Bachelor of Science, Computer Science

Bachelor of Science, Electrical Engineering

Seattle Pacific University, June 2011

Volunteer Work

Riser Coordinator,

Section Representative

Portland Gay Men's Chorus

Sep 2012 – Present

Portland, OR

- Coordinate with storage company and production team to schedule delivery and pickup of risers for every show
- Lead crew of ~12 to construct riser system, orienting new members and delegating to trusted members
- Direct all-hands teardown for a safe and timely strike with crew of 30+ members of all experience levels
- Field questions and issues from section of ~30 members, solving or escalating to team as necessary