

Chad Clark

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OBJECTIVE

Working with skilled people and solving technical challenges to make things better for our customers.

OVERVIEW

- Diverse experience in system administration, development, and integration.
- Adept at working across domain silos by translating terminology and viewpoints.
- Prioritizes automation, bug fixing, and robustness to free up human time long-term.
- Enthusiasm for learning how things fit together.
- Default tools: Go, Emacs, Linux, Perl, Postgres.

PROFESSIONAL EXPERIENCE

Shaw Communications

Solution Architect

2017 – Present

- Defined automation and documentation architecture for the new network technology Remote PHY.
- Supported communication and mediated between teams internal and external.
- Initiated team standups and long term planning meetings.
- Initiated setting, documenting, and communicating team goals.
- Assessment of requests for solution design and planning.

Systems Architect

2013 – 2017

- Provided technical direction and project leadership on integration projects.
- Projects included migrating all home phones to use new servers, making diagnostics information available to the call center, and diagnostics information for a new TV and internet syndication partner.

Software Architect

2009 – 2013

- Go-to person on the development team for debugging, programming, Linux, and networking questions.
- Initiated and created a diagnostics self-test module for our web applications.
- Drove making web applications mobile friendly.
- Implemented authentication and authorization for online streaming.
- TLS certificate administrator.

System Administration and Development

2006 – 2009

Bernoulli Networks

- Worked with external clients and internal technical experts to provide server and network support.
- Setup monitoring and alarming of customer networks to enable response before a customer called.
- Built VOIP and web hosting product offerings.

Research Programmer

2005 – 2006

Codefast

- Development in C and Perl to optimize software build jobs by calculating build dependencies.

Senior Programmer

2001 – 2005

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- Full-stack development of server automation to enable online customer self-serve web and email hosting.
- Created a stateless layer 3 load balancer to perform maintenance with zero downtime.

EXTRACURRICULAR

- Project TON core team member. TON collects and shares IP addresses behaving maliciously.
<https://projectton.com/>
 - Refactored code to reduce CPU load by 90%.
 - Introduced an API to collect records.
- Labrador USB electronics oscilloscope and signal generator.
<https://github.com/Espotek/Labrador>
 - Updated code to restore Android build.
 - Updated to automatically flash firmware on devices stuck at the boot-loader.
- Code and circuit using a Raspberry Pi to read electricity usage from a power meter.
<https://github.com/superfrink/power-meter>
- Built a Tetris game engine to use for neural network training.
<https://github.com/superfrink/tetris>
- Interest in electronics, microcontrollers, radio.

SKILLS

Technical

- Simplifying complex systems for communicating core relevant concepts to fit an intended audience.
- Both software development and operational experience.
- Comfortable in Go, TLS, IP, Apache, Linux , C, Postgres, Perl, Python, Git, Docker, web development.
- Operational Support Systems: inventory, provisioning, assurance, monitoring/alarming.
- Authentication Authorization Accounting, JWT, HMAC, Single Sign On.

Delivery

- Agile, Continuous Integration, Infrastructure as Code, Automation.
- Automation of build, testing, one-command deployment, and of monitoring/alarming.

Leadership

- Able to communicate using language and level of detail based on the audience.
- Engages with other viewpoints to address disagreements.
- Automatically thinks about what is important and why.

EDUCATION

Bachelor of Science

Computer Science, Concentration in Embedded Systems

University of Calgary

2003

Certifications

- *TOGAF 9 Certified*, The Open Group Architecture Framework, Certification #120321 2017
- *BMC Accredited Administrator: BMC Atrium Discovery and Dependency Mapping* 2014
- *IPv6 Sage Certified*, Hurricane Electric 2013