

Chad Clark

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OBJECTIVE

Be part of a high performing team, working with skilled people, focused on quality and customer experience, providing technical leadership through collaboration, and leveraging a breadth of experience in technology and development.

OVERVIEW

- Diverse experience in system administration, development, and integration.
- Easily works with people across domains. Adept at translating language 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 the automation and documentation architecture for implementing a new network technology being defined by industry members named Remote PHY. Worked with both internal and external teams.
- Led bridging departments previously struggling to work together by showing respect, going out of the way to let people implement solution components the way they felt was best, making design compromises in order to build trust - knowing people would come around to more automation after experiencing the middle-road design, and leading through an egoless programming approach.
- Initiated recurring meetings to address missed dates and communication.
- Ongoing assessment of requests from the business for solution design and planning.

Systems Architect

2013 – 2017

- Provided technical direction during integration projects to ensure needed work was identified, dependencies were met, challenges were triaged and addressed. Followed work being done by different groups to identify impact to other groups then communicate the impact and how we need to address it to the program team.
- Provided technical project leadership during the development of an in-house orchestration tool with ten developers and a dozen services. Coordinated collecting requirements, provided guidance on the solution design decomposition into web services and adding automated diagnostics, drove use of an agile delivery cycle, and directed resolution of challenges going live.
- Facilitated technical communication between companies and teams to design integration interfaces, resolve disagreements, and troubleshooting.

Software Architect

2009 – 2013

- Go-to person on the development team for debugging, programming, Linux, and networking questions.
- Introduced a diagnostics self-test module to ease support of many web applications.
- Drove making web applications mobile friendly and improving load times to increase time spent on the site and customer experience.
- Worked on authentication and authorization to provide customers access to new online streaming of video and music.
- TLS certificate administrator. Issued certs, tracked expiring certs, documented the process, created an email distribution list, and trained additional people.

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

2003

Computer Science, Concentration in Embedded Systems

University of Calgary

Certifications

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

2017

2014

2013