

Chad Clark

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OBJECTIVE

Doing design and code on a high-performance team delivering robust systems and a quality customer experience.

OVERVIEW

- Diverse experience in system administration, development, and integration.
- Prioritize automation, bug fixing, and robustness for long-term benefit.
- Value quality over features, understandability, autonomy, cooperating, and transactions benefiting everyone.
- History working across domain silos, translating terminology and viewpoints.

PROFESSIONAL EXPERIENCE

Software Architect 2022 – Present
Chata.ai

- Enabled sales to customers who would only buy when our SaaS product could run on-prem.
- Achieved a critical customer ship date by increasing product build and test throughput 6x through automation.
- Focused on eliminating software crashes being experienced during pilot customer engagements.
- Reduced cloud compute spend 50% by identifying overly high resource requests.
- Introduced Go to improve quality via build-time checks, also run-time performance.
- <https://github.com/Chad-Chata>

Shaw Communications
Solution Architect 2017 – 2022

- Defined automation architecture for the new network technology Remote PHY.
- Facilitated communication and alignment between teams internal and external.

Systems Architect 2013 – 2017

- Provided technical direction and project leadership on integration projects.
- Projects included migrating home phones to 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 diagnostics self-test modules to our web applications.
- 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.

Research Programmer 2005 – 2006
Codefast

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

Senior Programmer
iStockphoto / Evolvs Media

2001 – 2005

- 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.
- Made a compiler to translate Apple-1 6502 machine code into C code.
- Wrote a unix shell with pipes, history, and job control.
- Built a Tetris game engine to use for neural network training.
- 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>
- Interest in electronics, microcontrollers, radio.

SKILLS

Technical

- Experience with both software development and operational activities.
- Comfortable in Go, Linux, C, Postgres, Perl, Python, Git, TLS, Apache, Docker, Kubernetes.
- Authentication Authorization Accounting, JWT, HMAC, Single Sign On.
- Operational Support Systems: inventory, provisioning, assurance, monitoring, alarming.

Delivery

- Agile, Continuous Integration, Infrastructure as Code, Automation.
- Automation of build, testing, deployment, monitoring.

Leadership

- Simplifies complex details and adjusts terminology when communicating with different audiences.
- 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