



Correl Roush

Résumé

Skills

Languages

Python
 Erlang
 PHP
 C/C++

Elm
 JavaScript
 Lisp
 Haskell

Technologies

PostgreSQL
 MySQL
 Chef
 Git
 Docker
 Kubernetes
 XMPP
 AMQP

Work Experience

2017–2022 **Technical Lead**, *AWeber Communications*, Chalfont, PA, Fully Remote

- Identified and prioritized technical debt remediation and organization-wide technology goals, working alongside product managers to balance work and choose initiatives that fit alongside business goals.
- Guided my team's architectural software design while working with technical leads on other teams to establish and manage consistent standards and practices.
- Divided a monolithic PHP codebase and migrated its primary application off of old servers and into Kubernetes.
- Separated user authentication from the legacy application and restructured it to allow multiple users per account.
- Built a service to transform a JSON query DSL into efficient SQL for querying subscriber data and related analytics across multiple databases to replace an inefficient and difficult-to-maintain PHP implementation.
- Designed and built a system for executing and tracking the status of long-running background tagging operations.
- Mentored junior employees, teaching programming language features, techniques, best practices, and approaches to problem solving.

2010–2017 **Senior Software Developer**, *CoreDial*, Blue Bell, PA



- Designed, lead development on, and wrote documentation for a real-time presence and call-control API for managing hosted VoIP phone systems.
- Designed and lead development on a profile-based permissions system and integrated menu for users in a hierarchical structure of organizations.
- Maintained and developed features for a white-labeled PBX sales and configuration platform, including capacity metrics, sales commissioning, and VoIP platform integrations with Asterisk and BroadWorks.
- Defined and documented software development life cycle and change management workflows.
- Migrated the development team from CVS to Git, and introduced peer code reviews using Github, and later Gerrit.
- Co-organized and led a biweekly seminar with coworkers to study Structure and Interpretation of Computer Programs, the Seven in Seven series, and other programming-related topics.

2006–2009 **PHP Developer / Product Specialist**, *PayQuik / Citigroup*, Bala Cynwyd, PA



- Maintained and developed features for a white-labeled online remittance platform.
- Served as a backup release manager, managing integration branches and assisting with roll-outs.
- Built software tools to aid development.

Education

2000–2002 **Associate in Computer Programming**, *CHI Institute*, Southampton, PA

About Me

- Hobbies
- Reading, particularly science fiction, nonfiction, memoirs, and technical books.
 - Coding up my own tools and coming up with projects to try out and learn new programming languages or concepts.
 - Tinkering with electronics to create useful gadgets or add new functionality to existing ones.
 - Playing plenty of video games or getting together with friends to play some Magic: The Gathering.