ANDREW WALLER

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Staff Software Engineer | Backend Architecture & Tooling

Staff Software Engineer and Technical Lead with over two decades of experience architecting high-performance back-end systems and developer platforms. Deep expertise in **Python**, **containerized infrastructure**, and **automation frameworks** that boost productivity and reliability across all engineering teams. Passionate about building scalable solutions and elevating **developer experience** through thoughtful tooling and workflow design.

Languages & Frameworks: Python, Django, Celery, Django REST, FastAPI

Infrastructure & Devops: Docker, Kubernetes, CI/CD Pipelines, Ephemeral Environments

Tooling & Automation: Developer Productivity, Test Automation, Source Control (Git, Perforce)

Other: Unreal Engine, Technical Writing, Cross-Functional Collaboration, Software Development Lifecycle

PROFESSIONAL EXPERIENCE

Founder & Lead Developer — Indie Game Project "Dare To Follow" 74Dev

June 2024 - Present

Founded and led the development of "Dare To Follow", a single-player, top-down real-time RPG designed to evoke the classic tabletop miniature experience. Built in **Unreal Engine**, the project involved full ownership of **design**, **engineering**, **content creation**, **and production**. Operated as a one-person studio, rapidly mastering new technologies and delivering complex systems independently through creative problem-solving and technical execution.

- **Designed and implemented core game systems** in Unreal Engine, including gameplay logic, AI behavior, animation state machines, and interactive environments.
- Created and integrated sound effects, visual effects, and animation systems, demonstrating versatility across disciplines and technical artistry.
- Delivered a fully functional prototype and gameplay system, laying the groundwork for future content expansion and potential publishing opportunities.
- **Learned Unreal Engine, Blueprints, and Unreal C++ libraries** from the ground up, building production-quality features and performance-optimized codebases.
- **Managed full production lifecycle** from concept and design documentation to iterative development and milestone tracking using Git and task management systems.

Principal Software Engineer, Platform Infrastructure *GoodRx. Inc.*

November 2021 - May 2024

- Designed and implemented custom tooling for microservice development, extending a popular open-source Kubernetes cluster management tool (K9s) to streamline local development and deployment workflows.
- Enabled **inner-loop development** within a remote Kubernetes environment, offloading CPUintensive workloads from local machines to **scalable cloud infrastructure**, improving developer efficiency and consistency across environments.
- Led the architecture and implementation of a custom REST service to internalize URL redirection previously handled by a CDN. Eliminated external dependency risks, and optimized performance and operational costs.

Principal Software Engineer Manager – Engineering Tools Team Sr. Software Engineer August 2016 - November 2020 July 2014 - August 2016 May 2012 - July 2014

Palo Alto Networks, Inc.

- **Architected and led development** of multiple internal **Python** systems, including release management, branch integration, and engineering infrastructure tools, significantly improving build reliability and developer productivity.
- Designed and maintained CI/CD and publishing pipelines, introducing Docker-based containerization to decouple builds from host environments and accelerate deployment cycles.
- **Developed internal web applications** (Python/Django) to centralize project scheduling and reporting, replacing manual spreadsheet processes and improving visibility across teams.
- **Drove department-wide migration** to the Atlassian tool suite, standardizing collaboration and issue tracking for hundreds of engineers.
- **Managed hiring and team growth** during a rapid expansion period, building a high-performing engineering tools organization.
- **Oversaw R&D infrastructure operations**, including two major server room relocations to support scalability and business continuity.

Sr. Staff Engineer

March 2011 - April 2012

Stoke, Inc.

• **Modernized internal development infrastructure** by upgrading R&D tooling, migrating source control from CVS to Git, and implementing a Gerrit-based continuous integration system to improve code quality and collaboration.

Manager - Engineering Tools and Automation

March 2007 - February 2011

Force10 Networks, Inc.

 Designed and implemented a custom Python-based CI build system and managed release engineering and Perforce SCM for a distributed team spanning Santa Clara and Chennai, improving coordination and build reliability.

Software Engineer

December 2005 - December 2006

Veoh Networks, Inc.

• Early engineering hire (employee #11) at a rapidly growing startup, where I introduced automated testing, build, and deployment systems in Python that laid the foundation for scalable software delivery as the company secured over \$70M in venture funding.

Software Engineer

July 2003 - December 2005

Websense, Inc.

Began as a Test Engineer, developing an automated, data-driven test suite that doubled test coverage despite a 20% team reduction, and later promoted to Software Engineer, where I built a C++ library interface enabling direct Windows XP Firewall integration for the company's flagship security product.

Sr. QA Test Engineer

January 2001 - April 2003

McAfee / PGP (Network Associates, Inc.)

Designed and implemented a Perl-based automated test suite for enterprise command-line encryption software, achieving 95% test coverage and reducing product cycle time by nearly 50%, enabling expanded platform and OS support with a small team.