Robert Wendt

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EXPERIENCE

- **DevZero**   San Francisco, CA
  Member of Technical Staff   *Mar 2023 - Present*
  - **Suggester: Source Code Analysis Engine**: Utilized Rust and WebAssembly to build a source code analysis engine, Suggester, which automates the creation of environment specifications from git repositories. This tool leverages Nix for seamless environment setup, significantly simplifying the initial setup process for users by automating what was previously a manual and error-prone task.
  - **Daggy: Build System**: Developed Daggy, a build system that uses Directed Acyclic Graphs (DAGs) and integrates both Nix and Ansible, using Go. This combination enhances the reliability of builds and simplifies the management of dependencies and configurations, providing a reproducible and efficient approach to build processes.
  - **Environment Specification Syntax**: Developed a YAML-based syntax for development environments, simplifying configuration. This work covered everything from syntax design, parsing, translating into Daggy build instructions, to execution, streamlining environment setups.

- **Brev.Dev**   San Francisco, CA
  Founding Engineer   *Oct 2021 - Feb 2023*
  - **Cloud Developer Environments**: Led the creation of a platform for provisioning and managing cloud-based developer environments using Go, React, Terraform, and AWS, playing a key role in engaging our first 100 users.
  - **Cost-saving Autostop Feature**: Designed an algorithm to intelligently stop inactive environments, reducing customer cloud costs by over 25 percent through analysis of SSH traffic and usage patterns, alongside implementing a solid testing framework for its validation.
  - **"Deploy in Your Own Cloud" Feature**: Enabled deployment within customer's own AWS accounts using CloudFormation, Terraform, and Go, catering to essential enterprise requirements and attracting significant enterprise interest.
  - **GitHub OAuth Integration**: Implemented GitHub OAuth to automate SSH key provisioning, simplifying the onboarding process and significantly lowering user drop-off rates.

- **Conequip**   Newfane, NY
  FullStack Software Engineer   *Oct 2020 - Oct 2021*
  - **Inventory Management System**: Developed an inventory management system with Elastic Kubernetes Service, Terraform, Django, and Amazon RDS PostgreSQL, making over 600,000 parts searchable and improving inventory management.
  - **CI/CD Pipeline Optimization**: Reduced CI/CD pipeline costs by utilizing AWS Spot Instances for GitLab Runner, saving over 90 percent in expenses and boosting operational efficiency.
  - **Monitoring and Alerting Infrastructure**: Set up a monitoring and alerting system with Prometheus and Grafana on Elastic Kubernetes Service to manage service levels proactively and enhance system reliability.
  - **E-commerce Platform Development**: Oversaw the creation of a scalable e-commerce platform with Saleor, ECS, SQS, S3, and RDS PostgreSQL using Terraform, facilitating customizable online store creation to expand sales opportunities.

- **SimpleCitizen**   Salt Lake City, UT
  Backend Software Engineer   *Oct 2019 - May 2020*
  - **Fixture Management System**: Introduced a fixture management system to separate binary data from the codebase, making developer environment setups and updates more efficient.
  - **Automated Testing Framework**: Established a comprehensive testing framework for our Django GraphQL API, increasing code stability and security while decreasing failure rates by 15 percent.
  - **GraphQL API and Security**: Managed and enhanced the security of a vital GraphQL API, ensuring the safe processing and access of sensitive information, thus providing a secure and smooth experience for customers.

- **Peerfit**   Remote
  Backend Software Engineer   *July 2018 - Oct 2019*
  - **Database Optimization**: Revamped the database schema to accommodate a tenfold increase in data volume, thereby supporting significant user base growth and enhancing performance.
  - **Data Analytics for Customer Retention**: Automated usage report generation for gym partners, using the insights to customize services and effectively reduce customer churn.
  - **Marketing Integration with HubSpot**: Facilitated a direct integration between user activities and HubSpot, enabling targeted marketing strategies that significantly improved marketing outcomes.