

# Robert Wendt

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## EXPERIENCE

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- **Flakery.dev** San Francisco, CA  
*Founder* *Feb 2024 - Present*
  - **Vercel for Nix Flakes:** Architected a platform enabling users to deploy GitHub-hosted Nix Flakes to EC2 auto-scaling groups. Integrated support for secret management, ensuring seamless and secure deployments. Stack: Vue, Nuxt, Rust, Go, SQLite, AWS, Nix.
  - **Community Engagement:** Established a thriving NixOS community by organizing bi-weekly meetups at Noisebridge. These sessions facilitated knowledge sharing, provided feedback on Flakery features, and grew the user base.
  - **Custom SSL Proxy in Go:** Developed a lightweight, dynamic SSL proxy in Go to handle wildcard domain certificates for dynamic route management.
- **Niagra** San Francisco, CA  
*Data Infrastructure Engineer (Contract)* *July 2024 - Sep 2024*
  - **Cost-Effective Metabase Infrastructure:** Designed AWS-based infrastructure using NixOS and Terraform, optimizing costs by over 90% for hosting Metabase instances.
  - **Secure CI/CD Pipelines Across AWS Accounts:** Implemented GitHub Actions workflows with OIDC for secure and scalable deployments across multiple AWS accounts.
  - **Terraform-Based Dashboard Development:** Streamlined Metabase dashboard creation with Terraform modules, enabling reusable, scalable, and automated deployments.
  - **Demand Prediction with LSTM:** Developed an LSTM model to accurately predict product demand, enhancing inventory planning and supply chain efficiency.
- **DevZero** San Francisco, CA  
*Member of Technical Staff* *Mar 2023 - Feb 2024*
  - **Suggester: Source Code Analysis Engine:** Built Suggester using Rust and WebAssembly to automate environment specification creation from Git repositories, leveraging Nix for reproducible setups.
  - **Daggy: Build System:** Developed Daggy, a DAG-based build system integrating Nix and Ansible, ensuring reliable builds and simplified dependency management.
  - **Environment Specification Syntax:** Designed a YAML-based syntax for environment configurations, covering syntax design, parsing, and integration with Daggy.
- **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.
  - **"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.