

# ZVI BOSHERNITZAN

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## STAFF SOFTWARE ENGINEER • DISTRIBUTED SYSTEMS • ML INFRA • FULL-STACK

Builds and scales production systems across SaaS, distributed data, and ML pipelines.  
20+ years shipping high-impact systems in Python, Ruby, and JavaScript.

## EXPERIENCE

### Founder, PyReps (2021–Present)

Daily Python-practice platform.

- Engineered SPA prototype with custom schemas, prioritizing data flexibility to support rapid product iteration.
- Built offline generative pipelines using LLMs to author and validate structured drill content.
- Deployed Rails backend to manage user acquisition, validating core mechanics via rapid prototyping.

### Staff Software Engineer, Outreach.io (2018–2021)

Outbound-sales revenue efficiency SaaS

- Deployed BERT-based NLP models on multi-cluster Kubernetes, processing millions of emails daily.
- Optimized ML inference pipelines (Python, Kafka, SageMaker) to significantly reduce latency and cost.
- Implemented Datadog/Wavefront observability and alerting, reducing incident load.

### Senior Software Engineer (Employee #7), Kiva.org (2007–2017)

Global micro-lending non-profit.

- Re-architected core platform (DB queries ~250→3) to withstand national-media traffic spikes.
- Architected [partners.kiva.org](https://partners.kiva.org), the operational hub supporting **\$1B+** in micro-loans.
- Engineered modular SQL reconciliation engine to automate daily audits and financial integrity.

### Co-Founder / President, Robocommerce (2003–2007)

- Built an SMB warehouse/order-management platform (storefront, inventory, fulfillment, CRM, reporting), supporting \$7.8M+ in customer transactions.

### Early Engineering Roles (2000–2003)

- My Best Health (ASP/SQL hospital systems), ArsDigita (Oracle-backed CMS, consulting), and 3GWT (Python automation for VA pharmacy).

## SELECTED PROJECTS

- Building Blocks 2017: blockchain-based aid distribution for the World Food Programme (**POC and pilot**).
- Intercontinental Ballistic Microfinance 2011: High-resolution **visualization** of global Kiva loan activity.

## EDUCATION

Rice University — B.A. Biochemistry

- Coursework in CS, algorithms, software engineering.
- Research in molecular biology; Teaching Fellow in Genetics and Molecular Biology.

## ADDITIONAL TRAINING

- Advanced AI/ML coursework (Caltech CTME; Interview Kickstart)

## SKILLS

**Languages:** Python, Ruby, JavaScript, PHP

**Cloud & Infrastructure:** Kubernetes, AWS (Lambda, SageMaker, EMR)

**Machine Learning:** MLOps, distributed inference, inference optimization, observability

**Data & Storage:** Kafka, Spark, PostgreSQL, MySQL, Oracle

**Web Technologies:** Rails, React, high-performance MVC, caching