

Ben Vogt • Senior Software Engineer

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EXPERIENCE

Repl • San Francisco, CA

Senior Software Engineer (Team Lead) • July 2023 → July 2025

- Designed and implemented A/B testing and web analytics products.
- Realtime high-throughput data processing system for web analytics.
- Built timeseries query engine with filters, grouping, and aggregation.
- Shipped features for Repl's WYSIWYG landing page builder.
- Established alerting best practices, implemented observability.
- Had a lot of fun mentoring smart, enthusiastic junior engineers.

Protobase • Chicago, IL

Founder and Engineer • July 2018 → July 2023

- Founded company, and built spreadsheet SaaS product.
- App focused on separation of code, data, and formatting for sheets.
- Implemented custom Excel and Google Sheets runtime.
- Improved spreadsheet workflows with custom query language.

Signal Digital • Chicago, IL

Senior Software Engineer • January 2016 → July 2018

- High-throughput, high-scale data engineering, stream processing.
- Built distributed processing workflows for time-sensitive features.
- Worked on migration between large globally distributed databases.
- Built fast, accurate cardinality calculation system for client reports.

Software Engineer • July 2014 → January 2016

- Shipped fullstack features for Tag Management System product.
- Maintained Cassandra-backed graph database with 100B entries.
- Rapidly scaled customer-facing timeseries metrics system.
- Built and maintained company-wide documentation search engine.

PROJECTS

Glade <https://glade.graphics>

- Cross-platform GUI library for Typescript that uses WebGPU.
- Renders apps at +60fps on macOS, all major browsers.
- Utilizes Google's Dawn WebGPU library for native graphics.
- Support for flexbox, grid, table, fonts, text editing, and SVGs.

VM1

- Platform for on-demand VMs for sandboxing, dev envs, and hosting.
- Cold-start VMs < 200ms, 16GB/16vCPU in 3 regions worldwide.
- Uses Firecracker to run VMs, wireguard for cross-region traffic.
- SSH interface to start, stop, snapshot, restore VMs.

More than 11 years of fullstack engineering, focusing on building scalable software, leading development of new products and distributed systems from scratch; from prototype to release.

SKILLS

- Typescript (8 years)
- React, CSS (8 years)
- Rust (5 years)
- Go (4 years)
- Java (5 years)
- Postgres, SQLite (5 years)
- Clickhouse (2 years)
- Kafka (6 years)
- AWS (10 years)
- Build/deploy tooling (3 years)
- Infra and observability(4 years)
- Service-oriented arch (10 years)

EDUCATION

Beloit College

BA in Computer Science

BA in Theatre Performance

September 2010 → May 2014

Beloit, WI

INTERESTS

- Cycling
- Hiking
- Music production
- Theatre