

Owais Jamil

Software Engineer

About Me

Senior Software Engineer

Contact

Location: Austin, TX, US

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Skills

Languages

Python, TypeScript, JavaScript, Ruby, Golang, SQL, Rust, Dart

Technologies

Django, React, React Native, Flutter, Svelte, Vue, Rails, Docker, Kubernetes, Elasticsearch, Postgres

Professional Interests

Linux, Software Architecture, R, F#, OCaml, Mobile Development, Solid.js, Compilers

Education

Master of Science

Computer Science
University of Texas at Austin, 2022

Bachelor of Science

Microbiology
University of Texas at Austin, 2015 – 2017

Bachelor of Science

Biochemistry
University of Texas at Austin, 2011 – 2015

Professional Experience

Stormlight Labs

Founder and Lead Software Engineer

2024 – Present

- **Lead Engineer of a mental health & open-source focused startup, architecting scalable systems and leading development from concept to production.**
- Translated complex technical and product requirements into intuitive, performant, and maintainable software solutions grounded in research and user feedback
- Developed and optimized multi-platform applications and open-source libraries using Svelte, Rust, Go, and Flutter, applying modern software design patterns, concurrency models, and profiling for high reliability and performance

Edlink

Senior Software Engineer

May 2023 – Jul 2024

- **Technical lead and project manager for Flow, a data pipeline connecting LMS to SIS providers for schools.**
- Adapted new data model to the API, as well as connectors for new integrations
- Built and designed novel system architecture around PubSub and BigQuery, and Cloud functions
- NestJS (with TypeScript) and Postgres in a Kubernetes cluster on GCP with Redis. Dashboard built with Vue

CampusOptics

Software Engineer

Mar 2022 – Mar 2023

- **Independently gathered requirements from customers and management to develop new features for a higher education Environmental Health and Safety SaaS.**
- Built features for a React Native application while adding endpoints to the internal API
- Complete Stack: Redis for Sidekiq, Ruby on Rails monolith, and Postgres deployed to AWS Elastic Container Service

Texas Advanced Computing Center

Software Engineer

Oct 2019 – Mar 2022

- **Architected the Frontera User Portal, the first implementation of the Core Experience Portal v2.**
- Built with React, Django, and Postgres
- Developed SEO optimization strategy and publication pipeline update on DesignSafe-CI
- Advocated for and improved internal testing practices and implemented Pytest for Core V2

Projects

Volkara

Cross-platform ADHD focused productivity app

- Deployed a local-first SvelteKit application using PGLite and Drizzle, achieving sub-100 ms offline UX with deterministic data consistency
- Designed and implemented a premium sync engine with queued operations, SHA-256 diffing, and a network-aware worker
- Unified observability across web and worker contexts via session-scoped & GDPR compliant telemetry

Beacon

Python Type Checker and Language Server

- Architected Rust-based LSP implementation with Hindley-Milner type inference engine
- Implemented comprehensive code intelligence including real-time diagnostics and type narrowing via control flow analysis
- Built refactoring suite with workspace-wide renaming validation and automated quick fixes
- Designed incremental analysis architecture with multi-layer caching supporting VS Code, Zed, Neovim, and Helix

Big Fly

Comprehensive Baseball Statistics REST API

- Built RESTful API with Go and PostgreSQL serving historical data from Lahman Database and Retrosheet
- Implemented advanced analytics including win probability calculations from 2,143 unique game states
- Designed trigger-maintained search vectors with GIN/trigram indexes enabling sub-millisecond queries
- Architected ETL pipeline with materialized views and comprehensive Swagger/OpenAPI documentation

VoltX.JS

Lightweight Reactive Framework

- Architected signal-based reactive framework (<15KB) enabling declarative HTML-driven UIs without virtual DOM
- Implemented eval-free recursive descent expression parser with sandboxed execution
- Built SSR/hydration layer with scope serialization and plugin architecture
- Dependency-free TypeScript codebase maintained with 95% test coverage

Noteleaf

Unified Personal Productivity CLI

- Architected terminal-native productivity system combining task management, note-taking, and media tracking
- Implemented repository pattern with SQLite persistence and Cobra CLI framework
- Built article parser with Colly and goquery for web scraping