

Revaz Zakalashvili

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Summary

Systems-oriented software engineer focused on backend systems, designing and operating scalable services while contributing to frontend architecture and delivery pipelines.

Experience

Tech Lead | Senior Software Engineer @ [GLM/Kilo](#)

April 2021 - September 2025

Owned end-to-end system design, implementation, and operation of production systems, spanning backend services, frontend architecture, testing, and CI/CD pipelines, with a strong focus on reliability, observability, and zero-downtime delivery.

- Designed and implemented backend services in Python (Django / DRF), emphasising scalability, data integrity, and clean, maintainable abstractions
- Built and operated AWS infrastructure from scratch, including Load Balancers, Auto Scaling Groups, Launch Templates, EC2, RDS, Lambda, ECS, and ECR, enabling highly available systems and zero-downtime deployments
- Planned and executed zero-downtime infrastructure changes, including production migrations and architectural evolution, while minimising operational risk
- Designed and implemented deployment automation and operational tooling using custom Bash scripts and Ansible playbooks, supporting consistent deployments across multiple environments
- Implemented observability and alerting workflows, including Slack-based notifications for deployments and operational events, improving visibility and operational confidence
- Designed and implemented a unified testing framework using pytest and Playwright, enabling a structured approach to unit, integration, and end-to-end testing with clear ownership and coverage
- Established testing conventions and patterns that significantly reduced regressions and increased confidence in production releases
- Designed and maintained CI/CD pipelines using CircleCI and custom environment configuration to reliably support multiple environments
- Led architectural improvements across backend and frontend, including modernising frontend architecture and significantly improving application load times
- Implemented type-safe API integration by automatically generating TypeScript types from DRF, reducing frontend/backend integration errors
- Researched and integrated billing and reporting pipelines, including Stripe-based custom billing
- Worked closely with product stakeholders to translate business requirements into robust technical solutions and make informed architectural trade-offs

Tech stack: Python, Django, PostgreSQL, React, TypeScript, Cypress, Pytest, Playwright, CircleCi, AWS.

Full-stack Software Engineer @ [Eduflow](#)

April 2019 - October 2020

- Contributed to the design and delivery of multiple production platforms (Eduflow, Peergrade, Notify), working closely with product and design on technical and UX decisions
- Designed and implemented complex frontend architectures in React / TypeScript, including extensible editing workflows and state-heavy UI components
- Built advanced UI features such as drag-and-drop navigation, contextual menus, and media editing tools, balancing flexibility with maintainability
- Implemented responsive layouts, mobile optimisations, and accessibility improvements across the application
- Developed account management and authorisation flows, integrating frontend and backend concerns
- Collaborated on backend development using Python (Django) and GraphQL, working with data models, APIs, and real-time updates

Tech stack: Python, Django, Graphene, PostgreSQL, Redis, GraphQL, Relay, React, TypeScript, CSS, Webpack, Selenium.

Software Engineer @ [AzRy](#)

August 2016 - February 2018

- Contributed to large-scale, high-impact projects including the Legislative Herald of Georgia and the World Food Programme
- Designed and implemented custom modules for Drupal 7/8, focusing on complex document processing and presentation workflows
- Built a parallel document viewing system handling unstructured, non-identical HTML content with synchronised scrolling and interaction
- Led accessibility improvements to achieve compliance with WCAG and WAI-ARIA standards across the application
- Developed assistive features including a Georgian-language text-to-speech system to improve content accessibility
- Integrated and maintained supporting systems such as live chat and document management workflows

Tech stack: PHP, Drupal 7, Drupal 8, JavaScript.

Software Engineer @ [Origin Eight](#) March 2017 - Jul 2017

- Developed and maintained custom Drupal 8 modules and themes for client-facing applications
 - Contributed to backend logic, frontend behaviour, and CMS extensibility within a production environment
- Tech stack: PHP, Drupal 8, JavaScript, CSS.

Software Engineer @ [Geocell](#) August 2014 - Jan 2016

- Built internal tools to improve productivity of customer support and technical teams
 - Designed and implemented a Node.js service aggregating data from multiple databases (MongoDB, MySQL) to provide unified access to user information
 - Developed a company-wide Chrome extension with custom key bindings and contextual calculations, significantly reducing incident response time
 - Automated operational workflows using Python scripts to streamline file and server management tasks
- Tech stack: Python, NodeJS, Express, JavaScript, MongoDB, Mysql.

Software Engineer @ [Omedia](#) December 2013 - July 2014

- Developed responsive websites and custom modules using Drupal 7, integrating third-party services
 - Built reusable frontend architectures and implemented advanced CSS animations and interactions
- Tech stack: PHP, Drupal 7, JavaScript, jQuery, CSS, Gulp.

Software Engineer @ [ITDC](#) May 2013 - October 2013

- Built responsive frontend websites with scalable CSS architecture
 - Worked on build tooling and frontend automation pipelines
- Tech stack: jQuery, VanillaJS, Gulp, Grunt, Compass, Sass.

Community involvement

Co-founder & Co-Organiser @ [uniHack](#) December 2013 - December 2015

- Co-founded and organised four international university hackathons in Tbilisi, Georgia
- Coordinated technical tracks, participants, and mentors, fostering early engineering communities

Education

Computer Science, B.S. (coursework completed)

[Caucasus University](#), Tbilisi, Georgia

High academic standing (GPA 3.75), among top students in the School of Technology

Transitioned to full-time professional work prior to degree completion