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

Full-stack 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, Notifly), 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