ALEKSA TEŠIĆ

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ABOUT

Software engineer experienced in designing, building and maintaining distributed systems from the ground up. I've worked on every part of the stack, from bare metal deployments to frontend development. My side project, Notify Me, has been running for 3 years now and has about 4000 customers with some of them being paying customers. I love making internal tooling that helps other engineers thrive and increase their velocity and I love working on concrete products that are being actively used by people.

Skilled in Python, Go, TypeScript and everything cloud related. Looking for an opportunity where I can further improve my leadership and technical skills and where creating a superb product is a priority. I'm open to both part-time and full-time positions.

SKILLS

Programming: Go, TypeScript, Python, Flask, Selenium, React, Tailwind, Node

CI / CD & Cloud: K8s, Helm, GCP, Bash, Github Actions, Ansible, Docker, Jenkins, K8s, Terraform,

Databases: Postgres, MongoDB. InfluxDB

Other: Grafana, Prometheus, Git, RabbitMQ, Caddy, Nginx

WORK EXPERIENCE

Software Engineer - Microsoft (April 2024 – present)

Part of the WALI team in Microsoft responsible for smart suggestion and writing assistance features in various Microsoft products such as Outlook, Word and Teams. We are working on a SDK that other teams within Microsoft can use to easily provide smart assistance capabilities to their users in a unified way.

Currently leading 6 integrations of our SDK accross various Microsoft products in order to provide a unified experience for our users. This means that I'm responsible for any blockers that might arise during the integration process, as well making sure that integrations follow our best practices and planned timelines. Previous responsibilites included working on improving our CI / CD pipelines in order to reduce build times.

Main technologies used: TypeScript, Azure, React

Microsoft Development Center Serbia

SRE (until October 2022) & Software Engineer - Tenderly (March 2022 – November 2023)

I Was responsible for the internal tooling and CI / CD setup of the whole company. Main responsibilites incluced designing and extendending custom config system used in the whole backend codebase, creating and maintaining in-house developed CLI which enabled us to ship code from our local machines to production in less than 10 minutes.

Maintained and extended CI / CD pipeline, ensuring that code quality checks are in place and extended the CD part in order to adjust to growing number of engineers and environments, since our engineering headcount doubled in the span of 6 months.

Additionally, I worked on creating multiple microservices whose purpose was to catch regressions we had on our data pipeline.

Main technologies used: Go, K8s, GCP, Bash

tenderly.co

Notify Me - Co-Founder (October 2018 – present)

Notify Me is a simple website tracking & monitoring tool. It enables user to easily track changes on the sites that are important to them and to get those changes delivered in an easy-to-read format directly in their inbox. We currently have around 4000 users and around 1.7k monthly visitors.

Developed the first version of the site and integrated payment system, completely on my own. Talked with users in order to get user feedback and iterate on the product based on that feedback. **Currently working on this project with 2 of my friends in our spare time.**

Whole site is hosted on a self managed k8s cluster running on Hetzner. It was previously hosted on GCP, but due to the high costs we decided to move to Hetzner. Whole downtime of the migration was less than 1 hour. System is monitored via Prometheus and Grafana and our time to production is about 2 minutes, depending on how long the image build takes. Whole system is microservice based with 9 microservices running in total. Communication between them is done via RabbitMQ. MongoDB is used as a database.

Main technologies used: Python, Flask, Selenium, Terraform, React, Tailwind, RabbitMQ, Grafana, Prometheus, K8s

notify-me.rs

Devops Engineer - Connect the Dots (September 2021 – March 2022)

Worked on migration from docker based setup to GKE. Integrated tracing across all microservices in order to pinpoint performance pain points. Implemented new and improved existing CI / CD Github Actions pipelines. Deployed and improved existing IaC setup via Terraform.

Main technologies used: Terraform, K8s, GCP, Github Actions, TypeScript, Python

Associate and Board Member at Petnica Science Center (September 2017 – present)

Currently wearing two hats - I'm a head of a STEM department and a member of the board of the PSC.

As a department head my main responsibilites are organizing lectures, seminars and assistans in order to provide a fun and interactive learning experience for highschoolers that are interested in STEM sciences. This includes creating schedules, budgeting and organizing a team of around 15 assistans throughout the whole year and accross three different courses we have in a year

As a board member I'm sometimes involved in future planning for the PSC as well as in negotiations with potential sponsors and partners as well as government officials. Additionally, I'm sometimes helping in day-to-day operations of the PSC depending on what the current needs are.

This is a volunteer position that I do in my spare time.

Junior Devops Engineer - Itekako (September 2020 – June 2021)

Worked on various services for different customers. Most of the work was done on bare metal machines which were fully set up via Ansible while local development used Vagrant.

Most notable project I worked on included completely automating deployment workflow for Node.js based app written for AtlasCopco company.

Apart from that, various smaller tasks were done via mostly bash and / or Python scripts. Part of the job also included technical support for the development team of Itekako.

Main technologies used: Ansible, Vagrant, Bash, Python, Docker, Jenkins

Junior Backend Engineer - Penta Fintech (March 2019 – August 2020)

Started in Cards team whose main task was ensuring smooth communication with our banking provider - SolarisBank. Core responsibilites were implementation of business logic and integrations with various smaller providers.

Major part of the job was refactoring old ES5 Javascript code into ES6 TypeScript while, at the same time, breaking down monolith based code into smaller services and improving test coverage.

In the last few months of my employment at Penta I was transfered to the BackOffice team whose main task was ensuring that our internal CRM app worked properly.

Main technologies used: Node + Express, Postgres, TypeScript

Upwork / Freelancing (December 2017 – March 2019)

Mostly worked on smaller python based projects with some HTML here and there. Stopped when I joined Penta, since working 2 jobs and going to faculty just wasn't possible.

Main technologies used: Python, HTML

EDUCATION

University of Belgrade, Faculty of Mathematics (2017 – 2021)

Department of Computer Science - Informatics BSc