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About

Software engineer with a decade of experience specializing in distributed systems, with a focus on scalability, reliability, and performance. I have experience moving from monoliths to microservices to scale a business and back to microliths to optimize cost and performance.

I enjoy solving various system problems as well as low-level algorithmic challenges. My key strengths include analytical thinking, empathy, a strong bias for action, ownership, and a focus on customer needs.

SKILLS

Programming Languages: Kotlin, Java, Scala, Python, Go, Typescript Web Frameworks: Spring Boot, Vert.x, Netty, Play, Express.js

DevOps: Docker, Kubernetes, Terraform, Ansible, Jenkins, Gitlab CI/CD, Argo

CD, Datadog, ELK stack, Grafana, Prometheus

Databases: Postgres, Mongo, DynamoDB, Cassandra, Redis

Networking: TCP/IP, HTTPS, WebSockets

Big Data: Hadoop, Hive, Pig, Hbase, Clickhouse, Storm, Spark, Airflow

Work Experience

Trade Republic Bank

Senior Software Engineer

October 2023 - April 2024

Berlin, Germany

- Was in charge of user accounts and balances. Made system consistent, fast, and highly available.
- Resolved integration issues, and delivered a system required for Cards product launch.
- Identified and fixed slow spots, reduced response latency from 20 to 5 ms.
- Built a reconciliation system that processes 150M transactions daily to keep banking data consistent.

Picsart

January 2022 - March 2023

 $Senior\ Software\ Engineer\ II\ (Lead\ Engineer)\ -\ Data\ Platform$

Berlin, Germany

- Owned user tracking component in analytics platform handling billions of events per day, peak 200k eps.
- Implemented edge component with auth and back-pressure mechanisms for analytics platform using Envoy-based API gateway.
- Optimised event ingestion, reduced fleet by 40% and freed up resources.
- Reduced change failure rates by adding quality checks, tests, feature-flags and alerts.
- 10x faster deployments by switching to trunk-based development, reusable CI/CD components.
- Mentored engineers, improved ownership, quality, reduced debt.

N26 GmbH

March 2020 - January 2022

Berlin, Germany

Senior Software Engineer - Identity, Acting Tech Lead

- Full ownership of identity platform with focus on security, scalability, reliability and compliance.
- Implemented strong customer authentication for PSD2 compliance.
- Worked with product and ML on R&D projects, creating a roadmap to improve security of the platform.
- Automated access recovery for non-German customers, improving UX and cutting costs.
- Designed and implemented various authentication mechanisms for n26 products.
- Participated in on-call and incident response, addressing issues and minimizing downtime.

Freelance, Contractor

November 2018 - February 2020

Saint-Petersburg, Russia

Lead Software Engineer at Plutus.ai

- Led a team of five engineers to deliver casual crypto portfolio with gamification and social elements.
- Identified and resolved scalability issues to meet the demands of a growing client base.
- Switched system from batched to NRT data processing, enhanced gamification mechanics.
- Built framework for fast integration with exchanges and news outlets.

Multiple companies

(Senior) Software Engineer

May 2012 - November 2018 Saint-Petersburg, Russia

- Started career at a small ad startup, implemented several statistical models to improve CTR for ad campaigns.
- \bullet Joined the Java Test division at Oracle and helped release Java 8 and multiple Java 6/7 versions.
- Successfully delivered product features in various projects in ad tech, telecom, and fintech fields.

EDUCATION

ITMO University

Saint-Petersburg, Russia

September 2004 - February 2010

Degree: Master's degree in Optical Electronic Devices and Systems with specialisation in Optical-

Electronic Devices and Systems for Video Information Processing

Qualification: Engineer

Projects

Indoor cycling HUD

https://github.com/grambbledook/indoor-cycling-hud

Tools: C++, Bluetooth Low Energy, QT, sqlite, CMake, vcpkg

Description: An overlay app that aggregates data coming from BLE devices and renders workout

statistics on the heads up display