

JONAS-TAHA EL SESIY

SOFTWARE ENGINEER

Location: Sunnyvale, CA
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Software Engineer with 5+ years of experience in developing and maintaining large-scale, distributed software systems. Passionate team player familiar with agile methodologies. Architected and developed scalable & containerized back-ends, created powerful RESTful API services and built CI/CD pipelines to increase developer efficiency. Recent focus on building resilient, cloud-native infrastructure using Docker, Kubernetes, Istio, Terraform and Go.

SKILLS

- Go, Java, Swift
- Bash, Terraform, Pulumi
- Docker, Kubernetes, Istio, Helm
- Maven, Gradle, Make
- MySQL, PostgreSQL, MongoDB
- Nginx, Prometheus, Grafana
- Artifactory, SonarQube, Jenkins
- Git, SVN
- Microsoft Azure
- Linux, Mac, Windows
- Cloud-native infrastructure
- CI/CD workflows & automation
- Native apps (iOS/Android)
- Mobile First, Responsive design
- Agile development (SCRUM/Kanban)

EXPERIENCE

Snowflake Computing Inc., San Mateo, CA

Jan. 2020 – Present

Senior Software Engineer

As part of the platform team in the Cloud Engineering org, we work on building multi-cloud, multi-tenant container platforms to help teams increase velocity while decreasing operational burden & costs.

- Developed and operated the Kubernetes infrastructure and automation on all major clouds to support a big product launch.
- Led platform design, security review, implementation & roll-out for Microsoft Azure. This includes monitoring, logging, security agents, etc and is now live in most Azure regions serving hundreds of customers.
- Set up and operated istio service mesh to support high security requirements & more fine-grained ingress/egress controls alongside of Calico and network security groups.
- Introduced new cloud-agnostic DNS naming scheme for higher degree of automation. Currently implement ACME for automatic TLS certificate issuance/revocation to further reduce maintenance tasks.
- Helped with the development of critical platform components such as custom kubernetes controllers and conducted code reviews thereof.
- Set up CI/CD stack to reduce development overhead, increase cross-cloud consistency and introduced GitFlow to the team.
- Spear-headed IaC development using Pulumi & Go with to goal of having a fully automated push button deployment.
- Led technical interviews to help scale the team.

Mercedes-Benz R&D North America, Inc., Sunnyvale, CA

Mar. 2018 – Jan. 2020

Staff Software Engineer

As part of the Vehicle Infrastructure & Data Architecture team, we worked on processing high-volume, high-throughput data from all customer vehicles and making them available to data scientists and third parties.

- Developed and operated the Kubernetes infrastructure and automation to increase developer efficiency, application performance, observability and reliability with Azure Active Directory integration for Single Sign-On.
- Improved application monitoring and metrics collection efforts by introducing Prometheus, EFK and Grafana.
- Set up CI/CD stack to reduce development overhead and introduced GitFlow to the team.
- Implemented ISO-compliant APIs for selling near-time car data to external enterprise customers and data aggregators.
- Helped the migration process of the on-prem vehicle backend to Azure cloud platform infrastructure.
- Developed GDPR-compliant microservices to improve how customers give fine-grained consent to data usage in Go.
- Re-architected Car Data Hub data processing pipelines to enhance security and reduce processing latency for teams in China, Germany and the US.
- Provided training on CI/CD and cloud-native technologies to employees in other departments and regions.
- Led technical interviews and participated in career fairs/programs to help with branding and recruiting.

Reluelta Dev GbR, Klein Rogahn, GERMANY

Aug. 2014 – Dec. 2019

Co-Founder & CEO

Built multiple websites & mobile apps for clients from the arts industry.

- Implemented iOS and Android news apps using Flutter and Dart.
- Developed a custom Joomla component to simplify the automatic creation of news articles.
- Maintained and improved website performance by refactoring Joomla components and SQL queries.

IBM, Various cities, GERMANY

Oct. 2011 – Mar. 2018

Software Architect & Senior Consultant | Oct. 2016 - Mar. 2018

The team built a white-label hybrid mobile app including back-end services and DevOps for usage across the German insurance industry.

As the team lead:

- Built CI/CD and deployment infrastructure using Jenkins, Docker, Kubernetes, Nexus and GitHub for the app back-end used by Signal Iduna, Allianz, etc.
- Developed microservices in Java to display customer insurance information, publish push notifications, modify personal data and other features.
- Implemented native iOS and Android SDKs into the hybrid app by building Cordova Plugin-Ins in Swift and Java.

Mobile Architect & Consultant | Oct. 2014 - Sep. 2016

My team developed multiple Android applications and back-end services for a major German food store chain.

As a SCRUM developer, the responsibilities included developing Android apps and back-end services, performance analysis, and designing and implementing the security architecture.

Co-op student Business Information Systems | Oct. 2011 - Sep. 2014

Worked in various branches of the company including sales, consulting & HR.

EDUCATION

Master of Science, Service Management & Engineering

Mar. 2015 – Dec. 2016

Karlsruhe Institute of Technology, Karlsruhe, GERMANY

- Master thesis on "Streamlining Logistics Processes with Blockchain Technology": Implemented prototype on Ethereum to track physical assets in the context of supply chain management for the second-largest food store chain.
- Executive Masters program sponsored by IBM due to outstanding achievements in undergraduate studies.

Bachelor of Science, Computer Science & Economics

Sep. 2013 – Dec. 2013

UC Santa Barbara, Santa Barbara, CA GPA: 4.0/4.0

Bachelor of Science, Business Information Systems

Oct. 2011 – Sep. 2014

Berlin School of Economics and Law, Berlin, GERMANY

Bachelor thesis on "Sales support by sales performance analyses": Analyzed and evaluated current sales data to support better allocation of resources and improve decision-making processes.