



Hasan Sinan Alioglu

I am a generalist on several software technologies, especially web; also have strong Unix based systems background, specifically eager to do research and develop new ideas, passionate about IoT and embedded intelligence.

ekpyrosis in/hsa @ekpyrosis sinan.alioglu

Senior Software Engineer & Architect · +90 (530) 425 06 05 · sinan@alioglu.org

1985-08-11 · Turkish · Ankara, Turkey

Skills Top stacks and tools are the most common ones which I use significantly. Length of experience in years is beside.

Languages/Frameworks	Sql/NoSql/Queues/TP	DevOps/Tools/Libs	Cloud/Cluster/APIs
<ul style="list-style-type: none">• Bash 17• JavaScript 17• Python 9• Php 17• Django/Flask 7• Fastapi 2• Go 6• Gin 3• NumPy 5• React/React Native 5• Node.js 8• Html/Css 17• Vue.js 4• Nuxt.js 3• jQuery 11• Ionic 6• Gatsby 3• Laravel/Symfony 10• Angular 6	<ul style="list-style-type: none">• MySQL 17• Redis 9• PostgreSQL 17• MongoDB 9• GraphQL 3• Cassandra 2• OracleDB 2• WebSockets 5• MQTT 5• CouchDB 1• Kafka 3• SQL Server 5• RabbitMQ 3• ZeroMQ 2• DynamoDB 4• Amazon RDS 4• Memcached 11• Celery 5	<ul style="list-style-type: none">• Git 15• *nix 17• Nginx 15• Jira 10• Jenkins/Travis/Circle 8• Webpack 5• Npm 10• Slack 6• Elasticsearch 10• Splunk 9• Ansible/Chef 6• TensorFlow 4• HAProxy 12• Selenium 10• Raspberry Pi 8• Node-RED 4• Arduino 8• Flutter 2	<ul style="list-style-type: none">• Docker 7• Hadoop 4• Kubernetes 3• AWS 10• Google Cloud 3• IBM Cloud 3• ThingWorx 2• Terraform 2• Facebook 4• Twitter 6• Instagram 3• Telegram 5• OpenStack 3• Azure 2• Github 10• Heroku 9• Netlify 3• OpenShift 2

Education

- **University of Trieste**
Bachelor of Science (B.Sc.), Electrical-Electrical Engineering, EQF Level 6, Erasmus+
2010 - 2011 / Trieste, Italy
- **Uludag University**
Bachelor of Science (B.Sc.), Electrical-Electrical Engineering, EQF Level 6, 2.24/4
2003 - 2009 / Bursa, Turkey
- **Cankiri Suleyman Demirel Science High School**
Science High School Diploma, EQF Level 5, 4.5/5
2000 - 2003 / Cankiri, Turkey

Languages

- **Turkish**
Native
- **English**
Proficient
- **Deutsch**
Beginner
- **Italian**
Beginner

</> Experience

Founder & Sr. Software Engineer & Architect at [GKW Technologies](#)

Jan 2016 – Nov 2020 / Ankara, Turkey & Berlin, Germany

- Consulted and coded artificial intelligence backed relevant search result system for one of Turkey's top 5 B2b web site. Results are improved by approximately %300 and revenue growth by %20 in first quarter. Mostly built over Elasticsearch with Python.
- Advised about IoT and experimental sensor modules for a company who is at top 100 biggest companies in Turkey.
- Developed five Telegram bots for several industries such as costumer service, automation and education. All of them written in Python, containerized with Docker.
- Designed systems architecture and developed implementation software to track assets with Rfid for a global company in automotive industry. Management portal is written in Go, built on AWS and EC2, DynamoDB, RDS, SNS was used.
- Developed and maintained news, events and e-commerce portals with Django, PostgreSQL, Redis for a metropolitan municipality.
- Designed and developed three different devices with actuators for kids education in a metropolitan city science center. Devices built on Raspbian using Python and Bash.
- Owned and builded a new generation digital signage device built on Tizen. Also coded a portal with Django and CouchDB for mess device management. Used RabbitMQ for queuing, MQTT for interconnection between devices and gateway. The system architecture is based on Kubernetes orchestrated containers.
- Deployed four mobile applications for several enterprises developed with React, Python, MongoDB, GraphQL and Redis. One of them built on AWS with Lambda, DynamoDB, Route53, S3 and Redshift. All of them containerized with Docker.
- Advised about geospatial analyses and big data migration using NumPy, implemented a web based GIS using a powerful bpm platform with ThingWorx operated sensor cloud for a market leader in agriculture industry.
- Designed and builded a new generation custom gateway device for a metropolitan water company. Gateway allows two way communication with metering devices and management center. Software implemented with Python and Bash.

Sr. Software Engineer & Architect at [Mert Software](#)

Jul 2012 – Nov 2015 / Bursa, Turkey

- Lead of a team for designing and engineering of a customer specific device for automotive manufacturing market leader in country which is communicating with multiple mounting and testing devices. Device has display and completely integrated into car mounting line, allows staff to alert and operate with their smart watches.
- Investigated full capabilities of an ATM security device, designed and developed a device with over fifteen sensors, recompiled a custom Linux kernel over, rebuilt a special syntax language for programming remotely. The complete system architecture is based on AWS with Lambda, SNS, DynamoDB and many IoT modules.
- Developed and maintained many web based projects of the company and all if them are containerized with Docker.

Sr. Software Engineer at [Nette Interactive](#)

Dec 2011 – Jul 2012 / Bursa, Turkey

- Lead of a team for develop and maintain high traffic web sites including one of country's official TV website.
- Developed new features and maintained a local dating website, having over 3m users.

Sr. Software Engineer & Systems Administrator at [Karegen Internet](#)

Jan 2009 – May 2011 / Bursa, Turkey

- Lead of a team in a top ten web hosting company. Responsible for maintain all services and endpoints, solve mission critical problems, develop new features.
- Built a country wide multiple leveled b2b and b2c software. Also developed management interfaces for call center operators of company.

Sr. Software Engineer at [TurkTicaret.Net](#)

Jul 2006 – Oct 2008 / Bursa, Turkey

- Designed and built core and all channels of a high traffic portal which have more than ten channels like news, blog, sports, movies.
- Redesigned and programmed a commercial intranet software used by more than thousand middle sized company.
- Developed a completely automated internet services e-commerce platform, redesigned and emulated it to country's biggest GSM operator.

Software Engineer at Turkofis Informatics

May 2005 – Jun 2006 / Bursa, Turkey

- Developed an online exam result software for one of the biggest private teaching institution in city.
- Created a niche social media platform for a client.

Int. Software Engineer at [Pleksus Informatics](#)

Jun 2003 – Dec 2003 / Ankara, Turkey

- Be in a part of team for developing several online congress management and online learning softwares.