

Kais Kavar Full Stack Software Engineer

 [linkedin.com/in/kaiskavar](https://www.linkedin.com/in/kaiskavar)

 github.com/kais-viz

 Wageningen, NL



PROFILE

Fullstack Software Engineer with a strong foundation in data-driven software development, cloud-based applications, and automation. Experienced in Python, Node.js, Vue.js, and AWS, I specialize in developing innovative applications through scalable API-driven architectures, event-driven workflows, and robust ETL pipelines. My expertise extends to serverless computing, distributed systems, and modern data architectures, ensuring high availability, performance, and reliability. As a critical thinker with an enthusiastic approach, I embrace DevOps best practices and excel in collaborative, Agile teams where we exchange ideas to drive innovation and business growth.

SKILLS

- Python
- Javascript (NodeJS, VueJS)
- SQL (MySQL, Postgres)
- Cloud Computing (AWS, Azure)
- Serverless Framework
- Docker
- CI/CD, DevOps
- LLMs
- Git

PROFESSIONAL EXPERIENCE

Jun 2021 – present
The Netherlands

Full Stack Software Engineer, *StellarNurse*

- Designed scalable cloud-base application for job collection system, utilising Python, AWS's SQS and Lambda functions, Serverless Framework, and MySQL.
- Led the integration of job data from Google Jobs and agencies using DataForSEO and a pretrained Llama model, ensuring efficient data storage and processing using an innovative approach.
- Developed an anonymous email sending service to mask sender and receiver identities using Python and AWS SES, ensuring 100% anonymity for all users.
- Adopted a Test-Driven Development (TDD) approach using pytest for unit testing, improving code coverage and helped reduce post-deployment bugs.
- Developed a responsive frontend using VueJS and NuxtJS, naturally improving page load speeds.

Nov 2020 – May 2021
The Netherlands

Full Stack Developer, *Omi Health*

- Developed and deployed a data-driven, Dash-powered website on GCP, allowing for real-time predictive COVID-19 insights.
- Developed Python ETL scripts for automated data transformation and optimized data storage in MySQL.
- Architected and implemented a scalable technology stack to enhance cost efficiency and mitigate vendor-locking risks, demonstrating flexibility in leading the migration from GCP to AWS and reducing infrastructure costs by 75%.
- Designed and developed a modern frontend using VueJS and NuxtJS, achieving a 150% improvement in page load speed.
- Implemented AWS RDS for a scalable database solution and leveraged Docker Swarm for an efficient deployment.

Sep 2016 – Mar 2019
Remote

Full Stack Developer, Self-employed

- Independently managed the development of MailAwesome, a SaaS CRM helpdesk solution designed to streamline business operations by integrating Gmail for team collaboration; aimed at small-to-medium businesses.
- Developed backend services for ticket automation using Gmail API and Java Spring Framework, leveraging MongoDB's NoSQL capabilities for efficient data modeling and querying.
- Designed data visualization dashboards and reports, working on a contract basis with Foresite, my previous employer, utilising D3/DC.js.
- Independently managed project planning, product development, and research initiatives from scratch, demonstrating business development skills.
- Demonstrated creativity and adaptability by self-publishing and selling over 5,000 public domain books on Amazon Kindle Digital Publishing, leveraging data from Goodreads, Wikipedia, and Amazon API.

Oct 2013 – Aug 2016
Jordan

Front-end Web Developer, Foresite Web Design

- Developed user-focused Drupal websites using JavaScript, PHP, and Python.
- Worked in a collaborative team setting to deliver client projects; some are featured on the company's website.

EDUCATION

Mar 2019 – Sep 2019
The Netherlands

Data Analytics and Machine Learning, Ubiquim Code Academy

Five-month full-time project-based bootcamp using realistic business cases and datasets (see RPubS). During the course, I built machine learning pipelines and models for multiple projects. The following are some highlights:

- Predicted purchasing trends using R for market basket analysis utilising historical transaction records.
- Analysed energy consumption patterns, reducing consumption by up to 26%.
- Conducted sentiment analysis for iPhone vs Samsung Galaxy. Automation of web-scraping using Common Crawl, task distribution using Amazon EMR, and analysing the text to data solutions using R.
- Developed an indoor positioning system by leveraging WiFi fingerprinting; reducing the error to 8m.
- Created compelling visualisations with ggplot and plotly for each project, helping communicate insights to the team effectively.

Sep 2012 – Sep 2013
United Kingdom

Master of Science in Computer Science, University of Liverpool

Thesis: Modelled residual pollution from the Mersey Estuary and impact on the estuary.

Sep 2009 – Jun 2012
United Kingdom

Bachelor of Engineering in Civil Engineering, University of Liverpool

Thesis: Developed and designed an iOS recipe app, built with Objective C and Codelgniter.