



Nikolaos Pappas

/* A passionate software engineer, with 3 years of experience as a Software consultant in the financial sector and an overall of 6 years of experience as a Software Engineer. I have worked in numerous applications back and front end, with Java and Javascript both with frameworks, such as Spring and ReactJs and without as well as message processing with SQS, camel and spark. Passionate about music and data visualisation. My studies include a MEng in Computer Science at the University of Bristol and a BEng, MEng in Civil Engineering (Structural). The skills I obtained from my diverse education, along with my experience working and undertaking projects, are mainly problem solving, ease in adapting rapidly and the capability to undertake a broad variety of tasks. My trajectory as an amateur musician helped me appreciate discipline and experimenting with new things. I am always craving to expand the limits and discover something new. */ <https://cv.nikpappas.com>

Work Experience

Senior Full-Stack Engineer # HeliosX, *London/Remote* # 01/2020 - now

Migrating an existing Spring monolith to microservices, while making patches to ensure security. My objective since the beginning was to offer my experience from other organisations in order to promote security standards and sustainable working culture, highlighting the importance of communication between individuals as well as teams. My greatest achievement was highlighting security issues arguing for them to be mitigated, this mitigation ended up being the main company-wide OKR.

Keywords: AWS, Kubernetes / S3 / ElasticBeanStalk / RDS, Spring, Typescript, VueJS

Software Engineer # Elsevier, *London* # 01/2020 - 07/2022

Developing and maintaining microservices and processes to support the sciencedirect.com website. Offline processors that consume messages from SQS queues with Apache Camel and store the results into either DynamoDB or S3, depending on their role within the bigger architecture. Those are consumed by dropwizard services usually with a layer of elasticache and/or CDN cache before they get rendered with React to the web page that the client sees in their browser. In the last year I have also been building batch jobs with Apache Spark into our pipeline that use Machine Learning models to classify text into domains.

Keywords: AWS, EC2 / S3 / SQS / DynamoDB, Spark, Camel, TensorFlow, NodeJS, ReactJS

Extra responsibilities

Security champion (*since 06/2020*) # Promoting security awareness within the team in the design process and prioritising security issues. Configuring scanning tools to run as part of our GOCD pipelines.

Security lead (*since 03/2021*) # Promoting security awareness within the department and liaising with the security department and the security champions to coordinate and solve issues regarding security in a coherent way within the wider context of the company.

Java Academy # Conducting a series of lectures and workshops internally, to help developers upskill in Java especially regarding the newer Functional aspects of the language.

Mentoring younger members of the team has always been something that gave me completeness.

Software Consultant # Scott Logic, *Bristol* # 02/2017 -12/2019

Developing bespoke software for the financial sector. Using Java 8 and python with spark to provide regular regulatory reporting, as well as an analytics platform

Extra responsibilities

IT Assistant (*since 06/2020*) # Helping the IT department to set-up new machines for developers and executing any manual tasks on the server rerouting connections, replacing HDDs.

Web designer # Self-employed, *Europe/UK*

Building interactive websites featuring staged animations using SVGs and images as well as interactive infographics (maps).

Research assistant # GTE, *Madrid* # 03/2014 -07/2014

Higher Education

MEng Computer Science # University of Bristol # 2016

Thesis: *Mammography Interpretation Tool using Convolutional Neural Networks*

Keywords: CNN/Caffe, Computer Vision, Matlab

BEng/MEng Civil Engineering # Democritus University of Thrace # 2014

Thesis: *Experimental Corroboration Of The Behaviour Of A Bolted RBS Connection Under Cyclic Load*

Music Trajectory

Playing the **keyboards** and **synthesizers**, since 1998. Playing in a band the keyboards, tambourine and vocals from 2004 until 2009. Producing and mixing music since 2004. Radio producer at the university radio station. Professional and amateur DJ using mixing software, cd players and turntables. In the latest years I have combined coding and electronics with music theory and I compose using tools, such as **Processing**, **SonicPi**, **TidalCycles**, **Pure Data** and my current project is a fully **analog synthesiser**. Briefly experimented parameterising existing open-source projects of TensorFlow Magenta. My favourite pass-time is still digging in record stores and flea markets and listening to my findings.

Certifications/Courses/Awards

AWS Certified solutions architect (Pending) # AWS # 2022, Bronze Coin of effort recognition # Elsevier # 2021, Java 8 OCA # Oracle # 2019, 6006 Introduction to Algorithms (fall 2011) # MIT # 2015

Languages

Greek # Native English # Fluent Spanish # Fluent German # Basic