

DAVID KANANDA

CONTACT

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PROFESSIONAL EXPERIENCE

Equals (Formerly FairFx)

Senior Back-End Engineer
Jan 2019 - Present

Stack: NodeJS (with Typescript), AWS, Serverless, Terraform, Postgres, GraphQL (Apollo)

Building the International Payments (PAY) and Dealing (Exchange) platforms.

Main Achievements:

- Owned the api platforms for the Equals Pay and Exchange products.
- Re-architected the api from a monolith to micro-services using the serverless framework, managed as a mono-repo using Lerna and Yarn workspaces.
- Introduced Terraform and implemented infrastructure as code for system critical infrastructure such as AWS DynamoDB and Aurora postgres.
- Created the open source serverless plugin - serverless-custom-buckets, used for creating and managing AWS S3 buckets using the serverless framework.

Brand42

Fullstack Developer
Feb 2017 - Nov 2017

Stack: NodeJS, JavaScript (ES6), MySQL, HTML, CSS/SASS.

Responsible for collaborating with designers to deliver award winning web applications for clients such as Alfa Systems and Bloodwise.

Main Achievements:

- The lead developer in developing the Alfa Systems Investors website which has won a W3 Award for 2017
- Implemented a containerised development environment strategy using Docker eliminating dependency conflicts on developer machines

FL Group LTD

Software Developer
Feb 2018 - Dec 2018

Stack: NodeJS (with Typescript), Go, AWS, MongoDB, Gitlab CI, React, Redux

Developing the back-end api's and front-end web app for the Jemjar app - a blockchain based cryptocurrency rewards app.

Main Achievements:

- Implemented apis for communicating with a blockchain platform written in Go
- Implemented chat functionality into the front end web app for customer services
- Implemented analytics into the front end web app using Mixpanel
- Introduced unit tests for the front end web app
- Introduced continuous integration / delivery for the back-end api platform using Gitlab CI

University of Greenwich

Software Developer
Oct 2012 - Jan 2017

Stack: NodeJS, Java, MongoDB, MySQL, Docker, HTML, CSS, JavaScript (ES6), Angular2, rxJS, React.

Responsible for developing single page training environments used for internal purposes and by external clients such as T4R.

Main Achievements:

- Successfully migrated bespoke desktop training apps to web apps such the Pandora+
- Migrated BackboneJS apps to Angular2
- Introduced containerisation using Docker in development pipelines
- Architected and implemented RESTful apis consumed by EU research projects such as Pandora+ and POP-Alert

PROJECTS

- serverless-custom-buckets (open-source):
<https://github.com/DMKCode/serverless-custom-buckets>

EDUCATION

University of Greenwich

Bachelor of Science in Computing
1st Class Honours
June 2012

REFERENCES

Available on request

PUBLICATIONS

“Supporting Real-Time Decision Making Under Stress in an Online Training Environment”

IEEE Journal of Latin-American Learning Technologies, 2017

“Design of an Immersive Online Crisis Preparation Learning Environment”

Proceedings of the ISCRAM Conference, 2016

“Real-time Decision Support in Online Training Environments”

Proceedings of the XIII LACCEI Conference Santa Domingo, 2015