

Thomas Ward | Software Engineer

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### ***Professional profile***

Software Engineer with experience in scalable cloud based processing of real-time data using AWS solutions in Javascript/Typescript & Java. Knowledge of Apache Flink and Druid, a background in Computer Forensics & Ethical Hacking and an interest in finance and trading.

I have a working knowledge of both backend and frontend systems making use of a wide array of technologies such as; Javascript (NodeJs/Typescript/React/ES6/Express), Java, AWS Suite(S3/SQS/KPLs/KCLs/Dynamo).

Career summary

### **August 2019 > Present Hero, London, UK - Backend Developer**

#### *Outline*

SaaS ecommerce messaging platform undergoing a large migration between two messaging services.

#### *Key Responsibilities*

- Migrated backend APIs between two messaging services.
- Setup AWS Dashboards/Alarms
- Developed on a NodeJS/Typescript backend.

#### *Tech Stack*

- TypeScript/JavaScript (ES6+)
- ReactJS
- NodeJS (backend services)
- MongoDB
- AWS

### **November 2018 - August 2019 Kwiff Gaming, London, UK - Backend Developer**

#### *Outline*

Aided in the refactor from a legacy proof of concept to a more modular and maintainable code base using TypeScript/GraphQL.

#### *Key Responsibilities*

- Created and helped implement strict but effective Linting/Formatting rules (TSLint/Prettier)
- Aided DevOps with monitoring new microservices/ deployment pipelines.

- Created a mobile Casino platform in a short time frame due to issues with HTML5 apps on the App Store.
- Worked alongside Front End Developers whilst implementing a new sign up flow
- Helped debug issues out of hours and was always on hand for emergencies.

### *Key Achievements/projects*

- Rapid development of a ReactJS Mobile Casino WebApp which was deployed to production with 0 issues.

### *Tech Stack*

- TypeScript/JavaScript (ES6+)
- ReactJS
- NodeJS (backend services)
- GraphQL
- MySQL

## **Oct 2018 - Nov 2018 Partnerize, London, UK - Front End Developer**

### *Outline*

Created and maintained a UI Component Library containing React components that power the Partnerize WebApp. Also worked on legacy tickets (PHP) as and when required.

### *Key responsibilities*

- Created and implemented React Storybook to demonstrate component usage.
- Implemented stricter typing (Flow) and recommended the use of Styled Components
- Gave constructive criticism to all members of the team via Code Reviews.
- Mentored less experience developers on best practices and was on hand to reply to any questions.
- Implemented stricter linting rules (prettier) to create a more coherent code base going forward.
- Presented new ideas in weekly stand-ups to the team in an move to increase productivity and reduce code review time.
- Voiced my opinions loudly, clearly and concisely in sprint planning/requirement sessions.

### *Key achievements/projects*

- Reduced Code review times significantly by implementing a stricter more consistent linting config.
- Had an impact from Day 1 with Code reviews.

## **May 2017 – Oct 2018 Salecycle, Durham, UK - Software Engineer**

### *Outline*

Full stack software engineer specialising in JavaScript/TypeScript on the frontend and NodeJS/Java on the backend. Mostly involved in transitioning a legacy C#/.NET/SQL stack to a scalable cloud based solution using various AWS solutions.

### *Key responsibilities*

- Built a series of micro-services built from the AWS stack (Kinesis Consumer/Producer Libraries and Kinesis streams) used to power real time aggregated dashboards using Apache Flink and Druid displayed

in a react front-end app.

- Built/maintained a testing bridge allowing QA engineers to easily test a kinesis streams input/output at any part of the system.
- Contributed to services which were the front-door to the data processing system which does some basic data validation; along with services to compile handlebars emails.
- API first development, using the AWS API Gateway to authenticate all API requests.
- Aided the implementation Team with internal tools built using NodeJS deployed in docker containers to AWS ECS to automate testing and speed up the implementation process.  
(Javascript/Node/React/SQS/AWS)
- Provided Code Reviews for all parts of the system in a constructive and professional manner.
- Attended conferences and meetups representing SaleCycle, informing graduates of how and what it's like to work at SaleCycle.

While at SaleCycle I have mostly written software in JavaScript/TypeScript/Java however I have also done bits of C# .net, Go, and PHP. I have also had to create docker files, AWS CloudFormation scripts and AWS ECS task definitions.

### *Key achievements/projects*

- Implemented new technologies to power real time dashboards successfully, made use of AWS features and Druid. Committed to these open source projects.
- Built a multitude of tools including Template Previewers/Editors, automated testing tools which had a dramatic increase on the implementation time.

## **Oct 2015 – May 2017 SaleCycle, Durham, UK**

### **Implementation Developer**

#### *Outline*

Configured scripts in ES3 and later ES6 (transpiled down to ES5 using Babel) standards utilising TypeScript 2 with our own proprietary API to integrate with clients' websites to consume and track data, interfacing and utilising our core API for functionality, working with promises and async/await calls

Technologies: Javascript (ES6+), Typescript, HTML/CSS, MySQL, TDD.

### *Key achievements/projects*

- Introduced a Kanban approach to work increasing the teams productivity and awareness to current workload.
- As a motivated and hungry developer I worked on side projects including various internal tools mentioned above that lead to me joining the technical team as a Software Engineer.

## **Jan 2015 – Oct 2015 Connect Childcare, Burnley, UK Junior Developer**

#### *Outline*

As a graduate developer I worked on various parts of the Childcare WebApp, including introducing a templating language, aiding with data migrations & support cases as and when required.

Technologies: Javascript, HTML/CSS, Dust, Cordova (Convert to mobile)

## Education & qualifications

- **Computer Forensics & Ethical Hacking** – University Of Sunderland – 2014
- **CCNA** – University Of Sunderland – 2013

## About Me

Growing up in Belgium gave me endless possibilities which I relished and learnt Dutch/French/Swedish to a conversational level. My studies were focussed around Mathematics/IT/Physics culminating with a degree in Computer Forensics & Ethical Hacking. I am an active and motivated individual with a passion for bettering myself mentally as well as physically, frequently found in the gym, on the golf course or on the ski slopes.

Competitive cheerleader and cheerleading coach for multiple teams that have represented England at the World Championships.

## References - LinkedIn

<https://www.linkedin.com/in/thomas-ward-b1863024/>

More available on request