Natacha Tomkinson
Senior software engineer/Lead

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GitHub

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ABOUT

Full-stack software engineer with 8+ years industry experience specializing in cloud-driven web applications and event-driven architectures

EXPERIENCE

Senior Software Engineer, Hurdle   #

January 2022 — June 2023   a year

- Worked in a startup environment
- Migrated functionality from PHP Laravel legacy monolith to nodejs microservices
- Closely liaised with internal and external stakeholders to scope and deliver new features
- Architected micro-services for partner's authentication with JWT
- Built user interfaces using Node.js and React.js
- Led the front-end chapter
- Organized regular knowledge-sharing sessions to ensure high-quality standards and continuous improvement
- Led the team in adopting best practices in front-end development
- Facilitated knowledge exchange and collaborated on shared initiatives such as UI component libraries and design system development
- Worked with Terraform and Serverless for infrastructure provisioning
- Designed and documented APIs
- Mentored and coached
- Hired team members
- Used AWS suite
- Designed and documented APIs
- Practiced Test-Driven Development (TDD)
- Learnt some Go in mobbing sessions during developer's 10% time

Senior Full Stack Engineer, Kano Computing   #

September 2021 — December 2021   3 months

- Back-end focused
- Kubernetes
- Worked on a new platform to deliver content for the StemPlayer

Senior Software Developer, University of York   #

August 2019 — August 2021   2 years

- Supported org-wide migration to AWS and react/nodejs
- Closely liaised with internal stakeholders to scope and deliver new features
- Mentored and paired with team members
- Participated in recruitment panels
- Developed web and mobile applications
- Created a shared React component library using Storybook

- Integrated university systems with external APIs
- Used AWS services (Lambda, S3, DynamoDB, EventBridge, SQS)
- Implemented event-driven architecture

Full-stack Developer, Rebase Interactive Limited   #

February 2018 — August 2019   a year

- Built technically performant apps for clients
- Worked with Elixir, Ruby, Rails, ReactJS, Sass, CSS, and Node.js
- Used Rollup and Webpack for bundling

Full-stack Developer, Forward Financing   #

February 2018 — August 2019   a year

- Improved ability to auto-decline deals with a high chance of failing
- Created a shared React component library
- Developed a shared TypeScript utility functions library
- Refactored statistics modules for internal-facing apps
- Worked with Ruby on Rails, React, and Elixir with Phoenix

Web and Mobile developer, WEARVR LLC   #

August 2016 — February 2018   2 years

- Developed and maintained VR game platform
- Used automated testing
- Worked with Ruby on Rails, SQL databases, CSS, JavaScript, React, react-native, rspec, Mocha, Chai, and Jasmine

Presales Engineer, Amplience   #

May 2016 — August 2016   3 months

- Examined client requirements and provided feasibility estimates
- Developed proof of concept solutions
- Performed client-facing demos using JavaScript

Systems Analyst, Amplience   #

March 2015 — April 2016   a year

- Gathered requirements and helped clients implement new solutions
- Created XML metadata schemas

Project Manager, ChannelAdvisor   #

July 2013 — March 2015   2 years

- Trained clients on SAAS solution
- Used regular expressions, FTP, and advanced Excel functions
- Implemented light VBA scripting

EDUCATION

Computer Science, MSc   #

2020 — 2023   3 years

University of York

English teaching, C.A.P.E.S. (≈P.G.D.E.)   #

2006 — 2007   a year

Université Jean Moulin (Lyon III)

English Language, Civilisation and Literature, Master 1   #

2005 — 2006   a year

Université Jean Moulin (Lyon III)

English Language, Civilisation and Literature, BA

2004 — 2005   a year

Université Stendhal (Grenoble III)

SKILLS

Programming Languages

JavaScript (Node.js, React.js) | TypeScript | Ruby | Elixir | Python | SQL | Racket | C | Svelte | VBA (Excel) | PHP

Frameworks and Libraries

React.js | ExpressJS | Ruby on Rails | Phoenix | SpringBoot | Laravel

DevOps and Tools

Docker | Docker Compose | Localstack | Git (including Git hooks) | Bash scripting | Oracle SQL | Git version control (GitHub, Bitbucket) | Kubernetes

Diagrams

plantuml

Cloud Technologies

Heroku

AWS (Amplify, API Gateway, CloudFormation, Cloudwatch, DynamoDB, ECS, EventBridge, Lambdas, RDS, S3, SNS, SQS, ...)

AWS CLI, SDK, CDK | Serverless Framework | Terraform

Databases

Oracle SQL | DynamoDB | MySQL | MongoDB (AWS DocumentDB)

CI/CD

SonarCloud | Jenkins | Bitbucket Pipelines | Buddy | GitHub Actions

Testing

Jest | Ava | Cypress | RSpec | Minitest | ExUnit | PHPUnit

Front-end Development

HTML | CSS | JavaScript | React | CSS-in-JS | Tailwind CSS | Material-UI (@mui) | Post-processors | Sass | Redux | Storybook

Project Management

Agile (Scrum) | Jira | Confluence | Bitbucket | GitHub | Kanban

INTERESTS

Hobbies

Sewing | Gardening | Running | Wild Swimming | Video Games | Board Games | Role-playing Games

LANGUAGES

English & French, Native or bilingual proficiency