Ryan Watkins

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EDUCATION

University of Reading   Berkshire, UK
First Class Hons. BSc Computer Science   *Sep. 2013 – July 2016*

EXPERIENCE

Full Stack Developer   Sep 2017 - Sep 2018
Red Ant   *London, UK*
- Developed a REST API using NodeJS to match existing legacy systems and extending legacy systems. This backend used MongoDB as a data source within Heroku.
- Developed a full-stack mobile application using React Native and MongoDB.
- Migrated data from various SQL databases to a MongoDB data source, covered with tests along with notifications for these users being migrated etc. for a smooth handover for the client.
- Automatic deployment to bitrise from Bitbucket pipelines for smooth builds from dev, QA, client testing and through to production.
- Used cryptography to encrypt sensitive medical data for aforementioned application.
- Dynamic theming support on the frontend to scale to various medical partners.

Junior Software Development Manager   Aug. 2016 - Feb 2017
SIXT   *Munich, Germany*
- Worked on the Sixt.com website to provide a new React app.
- Worked with designers to match various mockups using Agile methodology.
- Contribute to and help with Golang middleware to provide a backend in between various microservices on-site.
- Use Scala to solve some bug tickets with an in-house crawler.

PROJECTS

Herrostats | *Clojure, Golang*   June 2020 – Present
- Developed a website that contacts the NBA API to obtain stats for Tyler Herro (Miami Heat NBA Player)
- Develop golang API and host inside FreeBSD VPS on Vultr to act as a middleman between NBA API and Clojure web app frontend)

Pong | *C++*   June 2020
- Use SDL API to recreate old atari pong.

PIXI.js Game Engine | *C++*   September 2020
- Use PIXI.js to create a flexible game engine suitable to deployment to web or other platforms.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, Scala, Clojure, Common Lisp, Elisp, Golang
Frameworks / Libraries: React/React-Native, Play, Lodash
Developer Tools: Git, Bitbucket Pipelines, Bitrise, Jira, VS Code, Emacs, Vim

CERTIFICATES

Big Data Analysis with Scala and Spark | *Coursera*   March 2019
Parallel Programming | *Coursera*   March 2019
Functional Program Design in Scala | *Coursera*   October 2018
Functional Programming Principles in Scala | *Coursera*   October 2018