Ian Anthony King

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I am a software engineer with a background in STEM education. I currently work in Design & Engineering at the BBC, where I build microservices with Kubernetes, Kafka and AWS. I have experience developing and maintaining products in JavaScript Clojure, Java and Python.

I am passionate about helping to get people into tech. I tutor [Manchester Codes](#), where I teach JavaScript, with React and Express.

Experience

Junior Software Engineer - BBC (August 2019 - Present)

I am part of the Universal Content team at BBC D&E. My team maintains the systems which power the programme metadata for BBC iPlayer, as well as electronic programme guides for external partners such as Sky.

Lead Tutor - Manchester Codes (April 2019 - Present)

I am the Lead Tutor for the backend module at Manchester Codes. I coordinate a team of three tutors (who also work as full time developers in their day jobs) in the development and delivery of the backend JavaScript curriculum. We focus on Test Driven Development, with Integration Testing and support students in deploying web apps on cloud services such as Heroku and AWS.

Skills

Some of the technologies I have worked with, please note this list is not exhaustive: `AWS Clojure Docker Express Git Java Kafka Knex.js Kubernetes JavaScript Jest Mocha MongoDB MySQL Node Python Raspberry Pi React React Native React Testing Library Sequelize Styled Components Webpack`

Projects

[LGBTQ.js](#)

A simple library for building linear gradient strings for a range of LGBTQ pride flags. Gradients can be customized with opacity and background images. The demo website is built in react with styled-components and tested with react-testing-library, content for the page is loaded from from markdown files with react-markdown. The package is published on NPM, and currently has around 600 weekly downloads.

GitHub: https://github.com/ian-antking/lgbtq.js/tree/master/module **Website:** https://ian-antking.github.io/lgbtq.js

Stalk Exchange

A full stack web app for Animal Crossing players to publish prices form their in-game economy, and make predictions on how prices in their island will change. Hosted on heroku, the back-end is built in express with a mongodb database, and the front-end is built in react with rebass component library. Frontend tests are written in jest, and react-testing-library for the frontend app.

GitHub: https://github.com/ian-antking/stalk-exchange **Website:** https://stalk-exchange.herokuapp.com

Queer Family Tea

A reactive web page for a lgbtq+ social group. Current Version is built with react-components-bulma, and serves content from Contentful. Images in the gallery are served from the groups instagram profile, and the contact from sends enquiries to the a channel in the groups slack workspace. For version 2 we are planning to replace Bulma with styled-components, and add front-end tests in react-testing-library.

GitHub: https://github.com/ian-antking/q-family-dinner **Website:** https://queerfamilytea.com

The Pirate Gui

The Pirate Game is a popular end of term activity for a lot of teachers and their classes. Originally published on TES, it is a game of luck and strategy. On top of this are some practical Maths skills such and handing grid references and keeping track of your pirate booty.

The Pirate Gui is a graphical tool for choosing and displaying random grid references as well as recording the turn order, just in case any disagreements happen. The page is built in vanilla javascript, with an object oriented approach to handling the map and grid references.

This App was built in vanilla JavaScript, with an object oriented approach to managing the game board.

GitHub: https://github.com/ian-antking/the-pirate-gui **Website:** ian-antking.github.io/the-pirate-gui

CMail

A simulated email client for teaching Functional Skills English. Built in react as a single page application. Learners can reply to one of the messages in the inbox, or start from scratch with a new email. Clicking the send button formats the text for printing or saving as a pdf. Clicking back from an email in progress stores it for later.

This app was built in Expo, with React Native. The companion api was build in express and deployed to Heroku. Images were stored on AWS S3.

GitHub: https://github.com/JonnyEdge/geograffiti

Education

- Manchester Codes - 24 Week Bootcamp (Aug 2018 - Feb 2019)
- Manchester Metropolitan University - PGCE (2014 - 2016)
- University of Sheffield - MSc Human Osteology (2008 - 2010)
- University of Lincoln - BSc Forensic Science (2005 - 2008)