

JAMES PLUMMER

Web Developer

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ABOUT

Primarily a React/React-Native developer, with professional experience and competence in JavaScript/TypeScript development. I also have experience working with backend technologies on personal projects, and to a lesser extent, professionally, giving me a frontend focused, but versatile skill set.

I enjoy learning new technologies, and take pride in my work. As a problem-solver at heart, I have found programming to be incredibly rewarding, and bring that enthusiasm with me to the professional arena.

In my free time I'm into kart racing, and still like watching motorcycle racing, having competed at a decent level myself a few years ago.

EXPERIENCE

Discord Clone – Web app [Nov 2021]

<https://github.com/jp-1990/definitely-not-discord>

Implemented a feature-light clone of the popular communication platform, **Discord**, using **React** and **Firebase** with **Vite.js**. Chat functionality is implemented using **Firestore listeners** to mimic a typical WebSockets solution, with **WebRTC** allowing for **multi-peer voice chat**. Besides React and Firebase, the only additional production dependency is react-icons, meaning **no additional libraries** were used to add any layers of abstraction to WebRTC.

Features:

- Google OAuth
- Mute/deafen functionality
- Multi-peer WebRTC voice chat
- Voice activity indicator
- Text chat

The project features pre-set servers and channels with authentication handled through **Google OAuth**. The **Github Readme** features a detailed breakdown of how the **WebRTC** implementation functions in this context.

Other Projects

Work Planner – Web app [Nov 2020]

<https://github.com/jp-1990/greenleaf-planner>

Implemented a **React**-powered planning system, featuring a **Firebase Realtime database** of clients and jobs. A manager can assign jobs to staff, who instantly see the updated work schedule on their

device. Features a **MapboxGL API** link, which plots jobs on an interactive map to assist staff in finding their client.

Time Manager – Web app [Aug 2020]

<https://github.com/jp-1990/task-tracker>

Created a server-side rendered **HTML/CSS**-based visual representation of the percentage of time of a day a task takes. The web app features user accounts, a **MongoDB database**, **custom API**, and **JWT authentication**. A stats summary of entries for each month is also available for each user.

[Visit my Portfolio and the Readme files on Github for a more in-depth breakdown of these projects]

Additional Project notes:

- Designed and built **client-side** rendered **SPAs** with **Create-React-App** and **Vite**, and **server-side** rendered static sites using **Gatsby**.
- Implemented a Webhook-driven self-rebuilding Netlify site, using a **Contentful CMS**, linked by **GraphQL** API calls.
- Built a **custom API** using **Node.js** and **Express** to provide database-powered **CRUD operations** to the client-facing UI.
- Solved **tiered authentication** implementations using **Firebase Auth** and custom **JWT** approaches (secured with Bcrypt password hashing).

PROFESSIONAL

ShopSafe Ltd. [Feb 2021 – present]

JavaScript/TypeScript Developer

Technologies: TypeScript/JavaScript/React Native/React/Expo/Apollo/GraphQL/Prisma

General Notes

- Contributed **production code** to multiple projects.
- Researched and designed the **linting/style guide** and **project architecture** for React based applications for the team, including setup **documentation**, and a **pre-commit pipeline**.
- Implemented **tests** using **Jest** and **React/React Native Testing Library** in each project.
- Designed various features using Figma, before translating this into a coded implementation.

Alert – Crime Reduction Native App**

A React Native app designed to facilitate crime reduction. Users belong to schemes, within which they report offences in their local area, and the individuals responsible for those offences. In production use in multiple locations in Britain, including by Basildon Police.

- Planned and implemented the refactor of **high-value features**, including image selection from the **device gallery**, significantly improving the **UX** when reporting a crime.
- Utilised **Reanimated** to offload animations from the JS thread. This improved the app frame-rate from under **10 fps** in certain situations to **40+ fps** (even for lower performance devices).
- Implemented user configurable data retention settings and a recycle bin to comply with **GDPR regulations** regarding data storage. Featured a **timer triggered function** to perform a daily scheduled sanitisation.
- Rebuilt the user invite system to include **deep linking** from an html email directly to the onboarding flow, with a redundancy to navigate to the web app if the native app is not present.
- Mapped out new features and alterations to the UI using Figma.

Alert Web – Web Implementation of Alert**

Pre-dating Alert, but fulfilling the same purpose in the form of a React web app. The Alert app was produced following the feedback from this web version.

- Planned and implemented an overhaul of the existing product to include all features present in the app version, keeping styling consistent with web based applications.

Hytalk Portal – React Based Management Portal**

Designed to streamline the interaction between product dealers, their customers, and the main distributor. Displays product usage information, management options, and billing information.

- Designed the **Prisma schema** for the SQL based database from a given list of project requirements.
- Designed the required **single and multi-page** data input forms in Figma, and implemented them in the code base.

****All projects are invite-only by ShopSafe Ltd. and are not available to the general public at present. The Alert app and web-app exist as a companion to security radio sales, with the Hytalk portal allowing customers to manage their products and schemes****

SKILLS & EDUCATION

Languages: TypeScript, JavaScript

Frontend: React, WebRTC, Gatsby, Tailwind, Sass, HTML 5, CSS 3, Vite

Backend: GraphQL, Prisma, Node.js, Express, MongoDB, JWT

Native: React Native, Reanimated

Testing: Jest, React/React Native Testing Library

Tools: Git, VSCode, Contentful, Firebase, Figma

Other: Problem solving, time management, effective communication, results driven mind-set, detail oriented.

Degree: The Open University, BSc Psychology (First-class Honours)

- Final project score: 93%

Academic Reference

A reference from The Open University which highlights many transferable skills. Also featuring comments from final year tutor, Dr. Sandra Bogelein. [Click to view](#)