

# Joseph Allen

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## CAREER OBJECTIVE

Front-End Developer with 8 years of experience in startups and products. Seeking a role in Japan to grow into Full-Stack development and take on leadership responsibilities. Previously lived in Japan; JLPT N5 certified.

## PROFESSIONAL SUMMARY

- Expertise with React, Next.js, TypeScript, Firebase, and modern DevOps stacks.
- Passionate about growing into Full-Stack development and progressing into team leadership roles.
- Strong background in Python and data science, with experience delivering training, live-coding sessions, and webinars.

## EDUCATION

**2:1 BSc Computer Science and Mathematics with Industrial Experience**

**Graduated 2017**

University of Manchester, UK

## TECHNICAL SKILLS SUMMARY

### Programming Languages & Frameworks

- **JavaScript:** React, Next.js, TypeScript, Gatsby, Redux, StateX, Storybook
- **Testing & QA:** Jest, React Testing Library, Cypress, Wraith
- **Python:** Flask, Pandas, NumPy, Jupyter, Django
- **HTML/CSS:** SCSS, LESS, CSS Modules, Styled Components, Material-UI
- **DB:** Firebase, PostgreSQL, MySQL, GraphQL, Netlify CMS, MongoDB

### Infrastructure

- **Cloud Platforms:** Google Cloud Platform (GCP), Amazon Web Services (AWS), Docker, Heroku, Vercel, Netlify

### Others

- **Project Management & Agile:** Scrum, Retrospectives, Sprint Planning, Jira, Trello, GitHub
- **Community & Leadership:** Organiser of PyDataMCR (2000+ members), Event speaker and trainer

### AVOCADOGREEN LTD.

SEP 2018 ~ PRESENT

#### Freelance Full-stack developer, Self-employed

Worked as a Project Manager and Software Developer on a range of technical projects, from static sites to production applications.

##### PROJECTS

###### RoadAI

Built a responsive interface for analysing road surface quality using AI-driven image classification.

- Designed a performant React front-end for heavy geospatial data.
- Developed a RESTful API with Swagger documentation.

Tools and technology used: React, Next.js, TypeScript, MapBox, Python, Django, PostgreSQL  
**moreliquid**

Led technical direction for a Web3 platform tokenising real-world assets over a two-year contract.

- World's first tokenised Money Market Euro fund, launching days before Blackrock.
- Automated and documented investor onboarding workflows.
- Contributed to £100k grant success and Base Camp accelerator admission.

Tools and technology used: Webflow, Gatsby, React, Trello

###### Ortom

Created a fast, modern website for a data consultancy.

- Built with static site generation and integrated CMS for client-led content updates.
- Improved traffic tenfold through improved UX and SEO.

Tools and technology used: React, Gatsby, GraphQL, Netlify CMS, SCSS

###### BilliDrop

Developed a lottery app template used across 30+ white-label domains.

- Built scalable architecture with reusable components.
- Handled tens of thousands of US Dollars in transactions.

Tools and technology used: Next.js, TypeScript, Vercel, Jest

###### Paragon

Led a team of 6 developers building a platform to automate video production workflow over two years.

- Introduced AGILE, retrospectives, and mastery culture.
- Supported junior developer growth and training with monthly reviews.

Tools and technology used: React, Redux, Firebase, Prisma, Netlify, Heroku

## Red Meters

Built software for a mining sensor company reducing ML prediction error.

- Created dashboards for sensor data experimentation.
- Improved model accuracy from 44% to 2.6%.

Tools and technology used: React, Python, Pandas, Scikit-learn, TensorFlow

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## N BROWN PLC.

MAR 2022 ~ SEP 2022

### Senior Front-end Developer

Built and maintained credit application features within a large-scale e-commerce platform.

- Worked on a production Credit Application, handling hundreds of daily applications for micro-loans.
- Implemented robust testing coverage and maintained a shared component library.
- Organised and led internal developer guilds with daily code challenges and monthly talks.

Tools and technology used: React, Next.js, TypeScript, Redux, Storybook, Jest, Cypress

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## UNIVERSITY OF MANCHESTER

SEP 2020 ~ MAR 2022

### Research Associate

Designed and delivered technical training and research outputs for the UK Data Service.

- Delivered workshops on synthetic data generation and disclosure control aimed at PhD students and lecturers.
- Built a Codecademy-style interactive training platform using React.
- Conducted research on ethical data use, focusing on Twitter and public COVID-19 datasets

Tools and technology used: React, Python, R, Git, Matplotlib, Twitter API

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## LATEROOMS.COM

DEC 2015 ~ MAR 2018

### Junior Front-end Developer / Junior Data Scientist

Contributed to front-end and data science projects enhancing the travel booking experience. Started as an intern, before being permanently employed. Eventually moved over to the Machine Learning team.

#### Moonstick

- Built a npm package to generate white-label booking platforms.
- General feature-development and testing of a production hotel-booking platform.
- Worked on Wizian, the new React Application serving end-to-end experiences from hotel-booking, to flights, to things to do on arrival.

Tools and technology used: React, Node.js, Express, Handlebars, SCSS, npm

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#### Machine Learning Team

- Developed a React dashboard for data science experiments and geo-shape tracking.
- Implemented a Flask API applying Analytic Hierarchy Process for customer preference searches increasing revenue by 20%, or £1M annually.
- Built and deployed a feature store of custom metrics, generated daily from historic booking data.

Tools and technology used: React, Python, Pandas, NumPy, SQL, Docker, GCP