



KUNAL MANDALIA

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SUMMARY

I help clients craft something that we can be proud of for years to come.

A dedicated JavaScript contractor with over 5 years experience in React and Node. Broad domain knowledge having worked on projects in FinTech, Manufacturing, Startups, Maritime, Transport, Oil & Gas, and Aviation over the past decade.

EXPERIENCE

Contract TypeScript Developer, Shell Agile Hub

London — August 2019-Present

Working alongside a dedicated team of experienced Software Engineers and industry experts from Oil & Gas and Aviation, we are digitising how Shell manages aviation contracts from tender to final outcome.

Accomplishments:

- 1st month: extended the app to allow contract managers the flexibility to add negotiation rounds to active tenders
- 3rd month: first production contract processed end to end
- 4th month: delivered an additional pricing strategy, discount pricing
- 5th month: increased the throughput of contract submissions 100x by queuing requests while still being able to report on their status throughout its lifecycle, preparing Shell for a busy February trading period
- 7th month: solved problems relating to scaling background processes using optimistic concurrency

Stack: TypeScript, Node, React, GraphQL, MSSQL, Azure, K8s, CircleCI, Docker
Libraries: TypeORM, Jest, Apollo, Codegen

Contract JavaScript Developer, Eurostar

London — February 2019-August 2019

Serving over 10 million passengers a year, we help customers manage their bookings. From obtaining tickets to board to upgrading their train services. We're also responsible for the real time train departure and arrival times.

Responsible for over 25 microservices, The Manage Your Booking (MYB) team consists of 11 people; 1 product owner, 1 scrum master, 1 business analyst, 1 UX designer, 1 manual tester, and 6 software engineers.

Accomplishments:

- 1st month: paired with the security team to deliver on time the first phase of Auth0 integration
- 2nd month: released Upgrade With Points. Circa 20% of journeys were upgraded using points following a soft launch
- 4th month: released Google Pay Boarding Passes. A world first featured on Google.io

Stack: Node, React, Java and Scala, Heroku, AWS
Libraries / Tools: Auth0, Swagger, CircleCI, Jest, Cypress, Selenium WebDriver

Contract JavaScript Developer, Ninety Percent of Everything

London — February 2018-February 2019

Working alongside a team of 40 industry veterans from software engineering, I helped build a next generation enterprise grade Maritime platform.

Accomplishments

- 1st month: helped drive the release of our first MVP, a dynamic visualisation tool, alongside a small team. Written in React (Redux) on the frontend. Received an internal kudos award for dedication.
- 4th month: released an IoT proof of concept to get insights from high value remote assets via conditional alerts and downsampling time-series data.
- 6th month: lead the backend development (Node, Postgres, Sequelize) of an app designed to digitise core auditing processes. Mentored / paired with a junior developer and provided guidance on modelling state in React components, refactoring, and testability of code.
- 9th month: nominated technical lead of an 8 person team to help coordinate development efforts across London and Kiev.

Stack: React, Node, and Go. Distributed systems and a Microservices architecture supported by Docker, gRPC, and Kafka.

Libraries/tools: GraphQL, Redux, Apollo, Auth0, Cypress.js, Jest

Front End Developer, [marketinvoice.com](#)

London — April 2017- February 2018

Lead the development of [marketinvoice.com](#) from the ground up as we rebranded ourselves a business finance company. Worked closely with the brand manager, designers, and the wider engineering team to develop and refactor React components based on prototypes and feedback from the wider business. Enjoyed mentoring full stack developers on frontend concepts like layout using flexbox.

[Read more about the journey.](#)

Stack: React, Redux, Node, Next.js, SASS, Jest, Webdriver, AWS, Travis

Accomplishments

- User experience: 55% faster load time, 28% smaller page size, 6x faster navigation client side
- Confidence in our codebase through following TDD:
 - Over 400 unit and e2e tests with strong coverage
- Recipient of 2 town hall shoutouts:
 - Completing Udacity's React Nanodegree (12hrs/wk over 4mo)
 - Completing the web rebrand within deadline
- Gave [public talks](#) on frontend engineering at MarketInvoice

Full Stack Developer and Founder, [grraft.com](#)

London — April 2016 - January 2018

Founded and built [grraft.com](#) to help (aspiring) developers find mentors. While the platform never hit critical adoption, I learned that my passion lay in developing products.

Stack: React, Redux, Node, Express, MongoDB, Stripe, SendGrid

Accomplishments

- Signed up over 40 users within 3 months of launch
- Collecting subscription payments for over a year

Systems Analyst, Brett Martin

Coventry — August 2012-December 2015

From supporting 150 users to developing software critical to our success, I wore many hats and consulted at all levels of the organisation.

Accomplishments

- [Developed ProfileID](#), an ASP.NET app which has helped customers specify the correct product, saving us and our customers thousands
- Developed the Assembly Scheduling app, used daily by the production team to forecast and plan production runs

Self employed

London — 2009-2011

Earned a living as a semi-professional online poker player. Some of the skills developed include probabilistic thinking (narrowing hand ranges based on additional information) and bankroll management (minimising the risk of ruin). Wrote [independent papers](#) on Mathematics, Computer Science, and Economics.

EDUCATION

Udacity

React Nanodegree — 2017-2017

Built [React Redux SPA](#) and [React Native](#) projects while learning how declarative, functional concepts were applied by the library authors.

Harper Adams University

Leadership and Professional Development (PgC) Merit — 2013-2014

Experiential leadership training, blending contemporary theory with actual behaviour. The lessons learned on negotiation have been invaluable.

The University of Manchester

Bachelor of Economic Science (BSc, Hons) 2:1 — 2005-2008

Highlights include applications of game theory, rigorous statistical econometric analysis, portfolio analysis, and the impact of institutions on economic variables.

Christ's College Sixth Form

A levels — 2003-2005

Mathematics, Economics, IT, Psychology AABa.

Christ's College School

GCSEs — 1998-2003

9 GCSEs including Mathematics, English and Triple Science at A*-C.

REFERENCES

Available upon request.