

DUDLEY SPENCE

FULLSTACK DEVELOPER

56 Boulevard Voltaire, Paris | 07 45 39 75 27 | dudley@dudleyspence.com | linkedin.com/in/dudleyspence | github.com/dudleyspence | www.dudleyspence.com | Full work rights in France

Full-Stack Developer with a strong foundation in building scalable, high-performance web applications using modern frameworks like React, Node.js, and Next.js. Skilled in both front-end and back-end development, including integrating APIs and delivering intuitive user experiences. Currently seeking my **first career role in Paris** to contribute to impactful projects and collaborate with a forward-thinking team.

EDUCATION

Master Of Science in Computer Science
University of Liverpool | Graduated Sept 2021

- Achieved **Distinction (80%) ~ 4.0 GPA**
- Relevant coursework: Solving the N-puzzle using a Deep Q-Network

Bachelor Of Science in Chemistry with Medicinal Chemistry
University of Newcastle | Graduated Sept 2019

- Achieved Upper Second-Class Honours (2:1)
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PROFESSIONAL DEVELOPMENT

Northcoders Software Engineering Course (Full-time 3-months) | Graduated Sept 2024

- **Excelled in full-stack development**, building interactive web applications using React, JavaScript, CSS frameworks, and Node.js, while implementing best practices like component design, state management, and RESTful APIs for efficient and scalable solutions
 - Demonstrated proficiency in **Git version control**, **Test-Driven Development** with Jest, and **Agile methodologies** to continuously improve code quality and teamwork
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SOFTWARE PROJECTS

TravelSync (Jan 2025) – Fullstack Developer

Tech Stack: React, React-Query, JavaScript, Axios, Firebase, Python, FastAPI, MySQL, SQLAlchemy

Live: <https://travelsync.up.railway.app/> | **Frontend Repo:** [GitHub](#) | **Backend Repo:** [GitHub](#)

- **Led a team of four developers to successfully deliver an MVP ahead of schedule** within the two-week project timeline
- **Extended the project independently**, using careful state management and **Context API** to consolidate features into fewer pages, creating a more intuitive user experience
- **Utilised React-Query** for efficient data fetching and caching, enhancing reliability and responsiveness
- **Built a FastAPI backend** with a MySQL database, leveraging **SQLAlchemy object relational mapping** and **Pydantic schemas** for structured data modelling and validation

TrailTalk (Dec 2024) – Fullstack Developer

Tech Stack: React, TailwindCSS, FirebaseAuth, Axios, Node.js, Express.js, PostgreSQL, Jest

Live: <https://trailtalk-production.up.railway.app> | **Frontend Repo:** [GitHub](#) | **Backend Repo:** [GitHub](#)

- **Architected modular React components and developed custom hooks** (e.g., useArticles) to centralise API logic, ensuring scalable code that follows DRY principles
- **Implemented dynamic routing and optimistic rendering** for smooth navigation and a responsive user experience with faster perceived interactions
- **Engineered a robust and maintainable backend API** using a Model-View-Controller architecture
- **Achieved 97%+ test coverage using Jest**, ensuring high code quality and minimising errors, while enforcing 100% commit compliance using Husky pre-commit hooks for automated testing.

Personal Portfolio (Dec 2024) – Frontend Developer

Tech Stack: Next.js, TailwindCSS, next-intl, Canva

Live: www.dudleyspence.com | Frontend Repo: [GitHub](#)

- Leveraged Server-Side Rendering (SSR) and static rendering significantly enhancing performance
- Internationalised all site content using next-intl to support French and English
- Scored greater than 94+ lighthouse score for Performance, Accessibility, Best Practices and SEO on all pages of the site

Peace of Mind (Oct 2024) – Fullstack Developer

Tech Stack: React, Redux, JavaScript, Axios, TailwindCSS, Node.js, Express.js, MongoDB, Jest

Live: <https://peaceofmind-fe-production.up.railway.app> | Frontend Repo: [GitHub](#) | Backend Repo: [GitHub](#)

- Architected a complex auth context with 2 different account types using Firebase Auth and React Context API
- Refactored to use React Redux for global state management, removing prop drilling and improving scalability
- Managed complex data manipulation involving date and time for dynamic routing, storage of historical tasks and leveraging Agenda.js to schedule and track tasks efficiently

SKILLS

- **Programming Languages:** JavaScript, Python, SQL
- **Front End:** React, React-Router, Next.js, HTML, CSS, Axios, TailwindCSS
- **Back End:** Node.js, Express.js, FastAPI
- **Technical Skills:** Object-Oriented Programming, Web design, Web applications, Functional Programming, Test-Driven Development, Machine Learning, Scalability, Code Quality, Version Control, API Development
- **Databases:** MySQL, PostgreSQL, SQLAlchemy, MongoDB
- **Tools:** Github, Jest (Testing), Firebase, npm, Tensorflow, Numpy, Vite
- **Transferable Skills:** Verbal Communication, Teamwork, Leadership, Agile methodologies, Organisation, Attention to Detail, Problem Solving Skills, Project Management, Ambition, Active Listener, Creativity
- **Spoken Language:** English (Native)

WORK EXPERIENCE

After completing my degree, I travelled and worked temporary jobs to fund the journey. These experiences broadened my perspective, improved my adaptability, and reinforced my desire to pursue a career in software engineering.

Asahi Beverage Company | Aug 2023 – May 2024 | Perth | Logistics Operations

- Achieved National Quality Champion for the month by identifying a critical defect in 50% of Pepsi stock, preventing financial loss and demonstrating attention to detail and problem-solving skills

HMRC (via Brook Street Agency) | Oct 2021 – Mar 2022 | Remote | Tax Administration

- Managed large volumes of sensitive data with speed and accuracy

ILTSC | June 2019 – Sept 2020 | Ilkley | Duty Manager

- Resolved conflicts and managed team operations, reflecting strong problem-solving and leadership skills applicable to agile development environments