DUDLEY SPENCE

SOFTWARE ENGINEER

CONTACT

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- Manchester
- https://github.com/dudleyspence

EDUCATION

MSc Computer Science

University of Liverpool

- Sept 2020 - Sept 2021
- Distinction

BSc Chemistry with Medicinal Chemistry

Newcastle University

- June 2016- Sept 2019
- Upper Second-Class Honours (2:1)

SKILLS

- Front-End Development: HTML and CSS
- Back-end Operations
- Full-Stack Development
- JavaScript
- Python
- Object-Oriented Programming
- Node.js
- Test-Driven Development (Jest)
- Git version control
- REACT
- Machine Learning
- Database and Information Systems
- Computational Intelligence

PROFILE

My early love for problem-solving naturally drew me to a career in technology. Earning a distinction in my Masters in Computer Science solidified my foundation in programming and gave me a broad understanding of the key components of development. Seeking practical experience, I enrolled in the Northcoders software engineering bootcamp, where I honed my skills in JavaScript and modern frameworks.

My unique blend of technical expertise and diverse experiences, along with a strong work ethic and adaptability, sets me apart. I'm excited to bring my passion for coding and collaborative spirit to a dynamic engineering team.

PROFESSIONAL DEVELOPMENT

Software Engineering Student

Northcoders Software Engineering Bootcamp   June 2024 - Sept 2024

- Developed advanced skills in JavaScript through intensive hands-on projects and coding challenges.
- Demonstrated strong data manipulation skills in JavaScript as showcased in this Kata - https://github.com/dudleyspence/data-manipulation-kata.git
- Adopted test-driven development practices to ensure high-quality, maintainable code, leading to fewer bugs and more reliable software. This is also demonstrated in the above Github repository.
- Improved my expertise in version control using Git and GitHub, facilitating seamless collaboration and code management in team settings
- Achieved proficiency in full-stack development, encompassing both front-end technologies (HTML, CSS, React) and back-end frameworks (Node.js, Express).

WORK EXPERIENCE

Forklift Operator

Ashahi Beverage Company Perth   Aug 2023 - May 2024

- Awarded Australian national quality champion for Asahi.
- Operated a standard forklift, twin-tyne forklift and high reach forklift
- Performed logistical operations that require high degree of focus and calculation of safety measures.

Tax Administration Clerk

HMRC - (Via Brook Street)   Oct 2021 - Mar 2022

- Digitised large volumes of scanned paper tax returns by accurately converting them into an electronic system, demonstrating strong data entry and attention to detail.
- Analysed and responded to taxpayer correspondence, explaining complex tax issues and resolutions, showcasing excellent written communication and problem-solving skills.

Duty Manager

Ilkley Lawn Tennis & Squash Club Ltd   June 2019 - Sept 2020

- Provided friendly and knowledgeable support to customers, maintaining composure and professionalism in all interactions.
- Responded effectively to customer concerns, ensuring a high level of satisfaction and resolution of issues.
- Trained new employees in essential job functions, enhancing team efficiency and service quality.

Shop Assistant

FatFace   March 2016 - Sept 2016

- Provided customers with prompt and polite support in-person and via telephone
- Assisted customers in locating products and checking the store system for merchandise at other sites

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SOFTWARE PROJECTS

Be-News-API

Software Developer   July 2024

- Queried a database.
- Used a TDD approach to cover both the happy and error paths.
- Set a RESTful API with a number of endpoints which cover CRUD operations.
- Set up parametric endpoints.
- Handled complex queries.
- Manipulated data to respond to client requirements.
- Hosted my server and DB.

https://github.com/dudleyspence/be-news-api

ACADEMIC PROJECTS

Solving the N-puzzle using a Deep Q-Network

Software Developer   June 2021

- Created a DQN using deep reinforcement learning
- Made use of new and industry leading training techniques such as 'experienced replay memory'

https://github.com/dudleyspence/N-Puzzle-DQN.git

Research literature project: Allylation of Imines

Research Author   Jan 2019 - Jul 2019

- Constructed an in-depth analysis of the research into stereoselective imine allylation reactions
- Considered the industrial use of catalysts, selected reagents and the right conditions in affording a desired amine or amide with high yields and stereoselectivies.