JOE MOSLEY

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PERSONAL STATEMENT

I am a hard working and analytically driven person looking to kick start my career by making the exciting move into software development. In my previous role as an acoustic consultant and in my year in industry at a large chemical plant, I had the opportunity to design and implement automated systems for the improvement of working practices. I chose to attend the Northcoders Software Development Bootcamp because I always found this aspect of my work very satisfying and I wanted this to be a key part of the next stage of my career. Attending the course has been eye-opening and has given me the confidence to apply my skills and experience to other sectors.

TECHNICAL SKILLS

Languages: JavaScript, using Node.js and browsers as environment; Visual Basic; Excel; MATLAB; Python

Testing: Test Driven Development (TDD); Jest; Supertest

Back-End: SQL; PSQL; seeding; migrations

Front-End: HTML; CSS; Tailwind CSS; React; React Native; Lighthouse and other accessibility tools

Hosting: Supabase; Netlify; Render

Soft skills: Agile and Scrum methodologies; SDL; paired programming; technical communication

SOFTWARE PROJECTS

Travel Site – *Independent Group Project*   *Next.JS/JavaScript*

- Brainstormed ideas and created user stories, wireframes and component diagrams for itinerary sharing site
- Developed back-end functions for uploading and searching for itineraries
- Ensured styling was responsive so that page content is displayed appropriately across different devices

Local Price Comparison App – *Northcoders Group Project*   *React Native/Python*

- Proposed app idea and plan to the rest of the group, using wireframe/component diagrams
- Developed the front end design using React Native and Google Maps API
- Collaborated with back-end team to integrate front-end design with database

News Website – *Northcoders Individual Project*   *JavaScript/PSQL/React*

- Created API endpoints using JavaScript and PSQL
- Tested endpoints using Jest/Supertest
- Developed front-end web design using React

Automated Sound Insulation Test System – *ADT*   *Excel/Visual Basic*

- Created automated system for instantly calculating results from multiple sound insulation tests, reducing time spent on data analysis
- Replaced paper test forms with mobile test forms, reducing time spent on paperwork
- Created a system for sending test data to a database, allowing the information to be reused for design work

WORK EXPERIENCE

Trainee Software Developer - *Northcoders*   *April 2024 – July 2024*
- Attended intensive 13 week bootcamp learning fundamentals of full stack web development
- Utilised agile and paired programming on multiple projects
- Created an original mobile app in a team of 5 using Python and React Native

Acoustic Consultant - *ADT*   *December 2019 – April 2024 & August 2024 – September 2024*
- Advised architects and developers on acoustic design measures for new buildings
- Developed in-house design/automation tools (using Excel and Visual Basic)
- Liaised with council officials and developers to answer questions and resolve conflicts
- Trained junior staff members in surveying and acoustic theory
- Organised noise surveys and sound insulation testing

Maths Tutor - *Tuition Time*   *October 2019 – January 2020*
- Taught maths and science to groups of up to four children at a time
- Set homework and offered individual support

"Young Innovator" - *IgniterSpace Sri Lanka*   *June 2018 – July 2018*
- Volunteered with students from around the world to design a Mechatronics programme for 15-18 year olds
- Created lesson plans for teaching 3D modelling and 3D printing using Blender and Cura
- Acted as a teaching assistant during weekend classes

Student Engineer – *Syngenta (Year in Industry Placement)*   *September 2016 – September 2017*
- Overhauled site procedures for the management and control of Legionella in plant cooling towers
- Trained plant personnel in Legionella awareness
- Set up a system for the calibration of torque wrenches
- Developed an IT system for streamlining the management of safety-critical bolted joints

EDUCATION AND CERTIFICATIONS

Institute of Acoustics   *October 2019 – November 2020*
IOA Acoustics and Noise Control Diploma – (3 Merits, 2 Passes)

University of Leeds, School of Mechanical Engineering   *September 2014 – June 2019*
MEng Mechanical Engineering (4 Years) - 1st Class

Greenhead College – Huddersfield   *September 2012 – July 2014*
A Levels - A*AA (Economics, Physics, Maths)

INTERESTS AND HOBBIES

In my spare time, I enjoy sports such as running and weight training. I have recently completed the Round Sheffield Run, the Manchester 10k, and the Sheffield Half Marathon. I also play guitar in a band. We have made several studio recordings and played headline shows around the country.