

# Jonathan Lee

## Junior Software Engineer

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📅 7th January 1989

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### 👤 PROFILE

Former digital forensic officer turned full-stack developer, driven by a passion for problem-solving and technology. My experience in data analysis, digital evidence, and technical investigations led me to software engineering, where I now build secure, accessible applications using React, Node.js, and PostgreSQL. Committed to leveraging tech for mental health accessibility.

### 📁 PROJECTS

#### Crime Solver, Full stack app comparing crime theories 🔗

Tech: React, Vite, Express

- Interactive platform for comparing crime theories.
- API calls and SQL joins for data retrieval.

#### FacePalm, Social media app 🔗

Tech: Next.js, Tailwind CSS, Clerk Auth

- Developed a responsive, modern UI with Next.js and Tailwind CSS.
- Built an interactive feed with real-time API data fetching.
- Implemented authentication and protected routes with Clerk Auth.

#### Group project - Movie Social Media Site 🔗

Tech: Next.js, Tailwind CSS, and Chakra UI

- Developed a responsive and theme-adaptive UI
- Implemented user authentication with Clerk, ensuring secure login functionality.

### 🎓 EDUCATION

#### Software Engineering Bootcamp, School of code

- Developing core competencies in data processing and API design, while embracing Agile principles to foster continuous improvement and adaptability throughout project lifecycles.
- Collaborating in Agile-driven teams to design and deliver scalable software solutions, regular stand-ups to manage large datasets efficiently and meet project milestones and weekly hackathons, showcasing our coding projects.

November 2024 – present

#### Software Engineering Bootcamp, Tech Educators

- Developed full-stack web applications with Node.js and PostgreSQL, emphasising database management.
- Designed solutions for managing dynamic, data-heavy platforms, including RESTful APIs and backend optimisation.

August 2024 – November 2024

#### BSc. Forensic Science with Honours, Liverpool John Moores University

- Specialised in data analysis and digital forensics, focusing on processing large datasets.
- Dissertation: Advanced fingerprint analysis techniques and data degradation.

2008 – 2012

## PROFESSIONAL EXPERIENCE

- VAS International School, Secondary School Science Teacher** 2021 – 2023
- Simplified complex scientific concepts for students, using clear explanations and real-world applications.
  - Led practical lab experiments, demonstrating precision, problem-solving, and attention to detail.
- EMG Education, Secondary School Maths & Science Teacher** 2017 – 2021
- Taught data-driven lessons using analytical techniques to improve student performance outcomes.
  - Applied critical problem-solving skills to simplify complex STEM concepts for learners.
  - Organised assessments and analysed results to identify trends for targeted improvements.
- Warwickshire Police, Digital Forensic Officer** 2015 – 2017
- Processed and analysed large datasets via SQL to extract evidence.
  - Used advanced tools to clean, validate, and report critical data for court proceedings.
  - Solved technical challenges involving encrypted and erased data under strict deadlines.
- Key Forensic Services, Drug Analyst** 2013 – 2015
- Analysed drug-related evidence using data validation techniques and tools like GC-MS.
  - Collaborated with cross-functional teams to deliver precise results under strict quality control standards.

## SKILLS

- JavaScript (ES6+), TypeScript**
- Strong understanding of modern JavaScript (ES6+) and async/await.
  - Familiar with TypeScript for type safety and scalable development.
- Responsive Web Design**
- Developed mobile-first, fully responsive applications.
  - Used media queries and flexbox/grid for adaptive layouts.
- Component-driven Development**
- Built modular, maintainable UI components in React.
  - Optimised performance with React hooks, memoisation, and lazy loading.
- Git & GitHub Collaboration**
- Experience with Git-based workflows and deployment to cloud platforms (Vercel, Render). Interested in expanding into CI/CD pipelines.
- Automated Testing with Playwright**
- Familiar with automated testing using Playwright and debugging with Chrome DevTools. Committed to writing maintainable and well-structured code.
- React, Next.js**
- Experience building interactive frontends with React. Keen to explore React Native for mobile development.
- API Integration (REST, AI/ML services)**
- Integrated REST APIs with Fetch/Axios for real-time data.
  - Experience working with authentication APIs and AI-based services.
- Problem-solving & Debugging**
- Debugged UI issues using React DevTools and Chrome DevTools.
  - Strong problem-solving mindset, quickly adapting to new challenges.

## INTERESTS

**Piano** — I've been playing the piano since I was 8 years old. It's my favorite way to relax and unwind after a long day, **Badminton** — As a member of my town's badminton club, I enjoy staying active and having fun while letting off some steam, **Hiking** — I love exploring the Shropshire hills on long hikes, immersing myself in nature and the stunning scenery.