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Recruitment Team
BAE Systems Digital Intelligence
Guildford, UK

Dear Recruitment Team,

I am excited to apply for the Software Engineering Summer Internship (June 2025) at BAE Systems Digital Intelligence. As a second-year MEng Software Engineering student at the University of Sheffield, I have led and contributed to multiple impactful software projects, and I am eager to apply my skills within a mission-driven environment like BAE's.

In my most recent project, I developed an AI-powered quiz platform that transforms uploaded documents into interactive quizzes using Gemini AI. By building a full-stack solution with FastAPI, React, and Bootstrap, I enabled users to assess learning from any file, improving their revision productivity by an estimated 40%. I also implemented secure JWT-based login and persistent user progress tracking.

Earlier, I led the backend development of a Band Management System using Spring Boot and PostgreSQL, where I created some role-based REST API with the objective to allow artists to manage rehearsals, members, and events — and the prediction to cut manual planning time by 50%. I containerized the application with Docker and managed development using GitHub.

I'm also spearheading the backend for a large-scale Audit Management System for pharmaceutical suppliers. My team's work will significantly reduce manual effort for auditors and QA managers by about 60-70% as stated by our client. Through this, I've grown confident working with complex data models, security controls, and collaborative workflows.

Beyond my technical contributions, I lead a team of engineers developing a React Native + Spring Boot app aimed at helping over 500 students navigate university life. This role has sharpened my communication, leadership, and Agile development skills.

What draws me to BAE Systems is your commitment to national security, inclusive culture, and cutting-edge technology. Your use of Java, cloud platforms like AWS, containerization with Docker/Kubernetes, and emphasis on secure systems aligns perfectly with my current stack and areas of interest. I also meet the requirements for SC Clearance, having lived in the UK for over 6 years.

Thank you for considering my application. I look forward to the possibility of joining your team this summer and post-graduation to contribute meaningfully to your mission while further growing as a developer.

Yours sincerely,
Nick.