

# Benjamin Samuel-Gilbert

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## Education

<b>University of Sheffield</b> BSc Computer Science (Predicted First)	<b>2023 - 2026</b>
<b>The Sixth Form College Farnborough</b> Computer Science (A), Mathematics (A), Physics (A)	<b>2021 - 2023</b>

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## Work Experience

<b>Cyber Summer School, Civil Service</b> <ul style="list-style-type: none"><li>Completed a 10-week government-run cyber security programme that combined lectures, workshops, and structured projects designed to simulate real-world security challenges.</li><li>Gained extensive hands-on experience in areas such as penetration testing, malware analysis, ethical hacking, and digital forensics through practical labs and guided exercises.</li></ul>	<b>Jun 2025 - Sep 2025</b>
<b>Officer Cadet, University Officers' Training Corps</b> <ul style="list-style-type: none"><li>Undertook a year of leadership and team training through military-style exercises.</li><li>Developed discipline, resilience, and working under pressure in challenging environments.</li></ul>	<b>Oct 2024 - Sep 2025</b>
<b>Engineering You're Hired, University of Sheffield</b> <ul style="list-style-type: none"><li>Collaborated in a multidisciplinary team to plan a regenerative braking system for aircraft.</li><li>Awarded with a distinction after publicly presenting and coming first in student hub.</li></ul>	<b>Feb 2025</b>

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## Projects

<b>Avis Drone Labs, University of Sheffield</b> <a href="https://avisdronelabs.uk">https://avisdronelabs.uk</a> <ul style="list-style-type: none"><li>Part of the core software team developing FGCS, a student-led, open-source ground control station for ArduPilot aircraft, focused on real-time telemetry, log analysis and mission planning.</li><li>Developed frontend (React + Electron) and backend (Python Flask) features, including a battery monitoring system, customisable altitude alerts, while modernising legacy code with Redux.</li><li>Additionally worked in a multidisciplinary team of 14 to produce a fixed-wing UAV featuring fully autonomous flight, aerial mapping, payload delivery and computer vision for object classification.</li></ul>	<b>Sep 2024 - Present</b>
<b>Code Collaborate</b> <a href="https://collaborate.bensgilbert.com">https://collaborate.bensgilbert.com</a> <ul style="list-style-type: none"><li>Deployed a real-time, browser-based coding platform with a room system, chat, and code execution, attracting 40+ monthly active users within four months.</li><li>Built the frontend with SvelteKit and Tailwind; deployed to Cloudflare using an automated CI/CD pipeline triggered by GitHub commits to main branch.</li><li>Developed the backend using FastAPI, facilitating real-time communication via WebSocket; containerised with Docker and reverse-proxied with NGINX on a VPS.</li></ul>	<b>Jul 2022</b>

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## Skills

**Languages:** Python, C#, Java, C++, HTML, CSS, JavaScript, TypeScript, Ruby, Haskell

**Frameworks:** React, Vue.js, SvelteKit, Flask, FastAPI, Socket.IO

**Technologies:** Docker, Git, GitHub, AWS (EC2, S3), GCP (OAuth2), Stripe, MySQL, PostgreSQL