

Suraj Shaw

Computer Science student · Offensive security and applied AI · London

shaw@shawsuraj.com / shawsuraj.com / linkedin.com/in/shawsuraj / github.com/shawsuraj / ORCID 0009-0002-4482-8013

PROFILE

Final year Computer Science student at the University of Westminster, focused on offensive security and applied machine learning. LCSP certified, working toward CEH and OSCP. I build and ship real products: World Chaos Map scores every country from live news every four hours, on a pipeline I designed and run alone. Five years leading bars and student teams in London taught me to stay calm under pressure and explain technical work clearly.

EDUCATION

BSc (Hons) Computer Science · University of Westminster Expected 2027

- Final Year Project: a calibrated behaviour trajectory forecaster on the public GLOBEM passive sensing dataset. It forecasts the direction of a person's routine (sleep, activity, phone use) from similar trajectories, with confidence measured by ECE, Brier score and reliability diagrams.
- Modules include Machine Learning and Data Mining, Applied AI and Game AI.

Certificate of Higher Education, Computer Science · Brunel University London 2020 to 2022

- A* in Software Design, A+ in Logic and Computation, A in Fundamental Programming. Also Algorithms, Networks and Operating Systems.

PROJECTS

World Chaos Map · Founder, sole developer worldchaosmap.app

- Live map scoring every country from 0 to 100 on what the news reports (deaths, arrests, airstrikes, curfews), compared with each country's own recent history. Now on v3.2.
- Pipeline reads 486 hand audited feeds plus GDELT, USGS, GDACS, ReliefWeb and WHO, covering news in 100+ languages. Respects robots.txt. Rescores every four hours on GitHub Actions, Supabase and Vercel.
- Shipped Orbit Mode (a self directing 3D globe), a prediction game, shareable Story cards and a full security review.

MaetriXs · Founder maetrixs.com

- Social fitness tracker: like Fitbit for your social life. Users log real encounters, earn XP and see their connection graph.
- Built the landing page in React, TypeScript and Tailwind, plus an AI agent operating system for the company with per task model routing to cut API costs.

One Sentence · Founder one-sentence.org

- Collective storytelling platform where strangers write a story one sentence at a time. React, TypeScript, Vite.

Sky Portal · Group project Django · SQLite

- Engineering team portal with a searchable team directory, an interactive dependency map (vis.js), internal messaging, meeting scheduling and authentication.

Smart Campus API Java · JAX-RS · Jetty

- REST API for rooms, sensors and readings with a HATEOAS root, nested sub-resources and consistent JSON errors through custom exception mappers.

Security tooling Python · Bash · PHP

- **ModSecurity WAF**: installer and reverse proxy config. Blocked SQL injection against DVWA in a three machine lab.
- **ctfBlahBlah**: recon automation chaining Nmap, Dirb and WPScan. **nuntius**: email spoofing test tool for phishing awareness.
- **VerumVeil**: Python encryption experiments, including an AI sentence cipher, an emoji cipher and SkipCode.

EXPERIENCE

Security Intern · Safe Security (Lucideus), New Delhi 2019

- Ran vulnerability assessments and penetration tests on live websites and servers across web, network and mobile targets, including reverse engineering.

- Machine Learning Intern · Unified Mentor

2025, six months
- Vice President, CEDPS (elected), Trustee · Union of Brunel Students

Jul 2022 to Jul 2024

 - Elected full time Vice President for education and welfare, representing 7,000+ students in the College of Engineering, Design and Physical Sciences. Chaired the union AGM and Student Assembly. Sat on Council and Senate and represented Brunel in talks with the University of London group.
 - Organised coding hackathons, seminars and guest lectures for the College of Engineering, Design and Physical Sciences. Oversaw the union bar and nightclub operations.
- Managing Director · Hotel Raj Suraj, India

Oct 2024 to Jun 2025

 - Ran a family hotel end to end. Introduced digital booking and inventory systems that cut booking errors by 30%.
- Bartender · Guinness Open Gate Brewery, Covent Garden

Dec 2025 to now

 - Opening team member at a high footfall flagship venue, alongside full time study.

CERTIFICATIONS AND AWARDS

LCSP Grades 1 and 2, Safe Security, 2019	LaunchPad: Data Structures and Algorithms in C++, Coding Blocks, 2019
The Move to Mobile, Security Matters CPD, 2026	Complete Python Bootcamp, Udemy, 2019
CEH and OSCP, in progress	Employability Skills Certificate, Brunel, 2020
HACXMAS Hackathon, Track C winner, Google DSC, 2021. Smart CleanUp app with TensorFlow and Google Maps.	

SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL, Bash, PHP
Security: VAPT, web application and network security, Nmap, WPScan, Dirb, ModSecurity, Linux
ML and data: classification, ensembles, neural networks, clustering, probability calibration, CRISP-DM
Build: React, Tailwind, Django, JAX-RS, Supabase, Vercel, GitHub Actions, Unity
Spoken: English, Hindi, Bengali