

Ciroma (Chukwuma) Adekunle

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EDUCATION

University of Cambridge

Oct. 2023 – Jun. 2025 (on leave of absence)

B.A. (Hons) in Computer Science

Cambridge, England

- **Grade: 1st Class.** Highest mark for Object-Oriented Programming. Top 5 in: Databases, Discrete Mathematics, Machine Learning & Real-world Data, Software & Security Engineering.
- Cybersecurity Society: Secretary (2024/25) – Represented the University in various international competitions.
 - * 1st place at pwnEd5 finals, hosted by the University of Edinburgh.
 - * 2nd place at the global finals of LakeCTF 2024, hosted by the Swiss Federal Institute of Technology Lausanne.
 - * 3rd place at European finals of CSAW CTF 2023, hosted by New York University.
- Hughes Hall May Ball (2023/24) – Developed www.hughesmayball.co.uk and managed domain. *React · TailwindCSS*
- CUMSA Database Officer (2024/25) – Revamped membership.cumsa.org and admin panel. *Next.js · DynamoDB*

EXPERIENCE

Hacktron AI

Apr. 2025 – Present

Co-Founder

Remote

- Building a fully autonomous security researcher. Raised €400k via YC post-money SAFE at €6M valuation cap.

Open Government Products

Jun. 2024 – Sep. 2024

Software Engineer Intern

Singapore

- Built & shipped a Next.js app used by HR and team leads to visualize and preview changes to access control policies on the organization's GitOps access control solution, reducing human error. This replaces previously ClickOps-heavy workflows.
- Used Pulumi infrastructure as code to build a Better Stack integration that reduces time-to-triage for vulnerability reports from several hours to < 1 minute.
- Initiated and led a project to build open-source secure-by-default components used by developers in production systems and our starter kit template, making application security easy and invisible. Remediated a Next.js 0-day in the process.
- Configured CI/CD pipelines including automated NPM package publishing, changelog generation, documentation generation from TSDoc comments (published to a documentation website), testing and deployment.
- Initiated and configured advanced static code analysis pipelines across the organization. Wrote and published custom CodeQL query packs and libraries for data flow analysis on common technologies used, including Next.js, React, and tRPC.

Insight Programmes

2024

- **Jane Street:** One of 60 selected participants for the First-Year Trading & Technology Programme.
- **IMC Trading:** One of 15 selected participants for Launchpad. 4th place in the individual low-latency challenge.
- **Macquarie Group:** One of 30 selected participants for the Technology Insight Programme.

Cure53

May 2023 – Present

Freelance Security Engineer

Berlin, Germany (Remote)

- Performed 20+ code audits and VAPT's for [global clients](#), including Fortune 20 companies.
- Targets included web applications, browser extensions, Electron-based desktop applications, and mobile applications.

TikTok

Apr. 2023 – Sep. 2023

Security Engineer Intern

Singapore

- Discovered 50+ security vulnerabilities affecting critical internal and external facing services, such as TikTok.
- Developed Java extension on Burp Suite's new Montoya API for testing protobuf over both WebSockets and HTTP(s), a feature not supported by any open-source extension at the time of development.
- Wrote and deployed to K8s a deliberately vulnerable app in React and Express used as part of an internal competition.
- Researched at scale: Protobuf over WebSockets, XSS filter bypasses, and rich text editor vulnerabilities.
- Weaponised a 0-day in an online word processor to harvest employee credentials in a red team operation.

HACKATHONS & PROJECTS

[EurekaPad](#) | *Next.js · TailwindCSS · Convex · Clerk · Radix UI · Vercel · Azure Cognitive Services*

- Raised \$16,000 in equity-free funding.
- Won Fitzelerate 2025, the Queen's College Entrepreneurship Competition 2025, and the SUTD Baby Shark fund.
- AI-powered technical writing tool. Runnable code blocks, intuitive math editor, interactive graphs, real-time collaboration, \LaTeX and PDF exports, and AI-powered "vibe writing".

[Catfish](#) | *Next.js · TailwindCSS · Radix UI · Flask · Vercel · Tavily · Anthropic API · Instagram OAuth · Tinder API*

- 2nd Place @ Cam Hack 2024 (Cambridge University Hackathon).
- AI-powered Tinder dating assistant – automatic profile updates, match compatibility, smart opening lines, and date ideas.

[EduAble](#) | *Next.js · TailwindCSS · PostgreSQL · Vercel · OpenAI API*

- 2nd Place @ Cambridge Generative AI Hackathon 2024, Finalist @ Fitzelerate 2024
- STEM notetaking app with real-time audio transcription to Markdown & LaTeX, and AI-generated summaries & quizzes.

[Echo](#) | *Next.js · TailwindCSS · Vercel · Reddit, Twitter API + OAuth*

- Most Promising AI x Web3 Build, 1st Prize @ Encode Club London AI Hackathon 2024
- Social media aggregator that provides personalised feed for users to regain control of their social media algorithms.

[Ambrose](#) | *TypeScript · React · TailwindCSS*

- 1,200+ downloads.
- Chrome extension that automatically answers trivia questions and reminds users of pending trivia quizzes in an online game.

PROFESSIONAL HIGHLIGHTS

Speaking Engagements

- *Client-Side Attacks in a Post-XSS World* – pwnEd 5 (University of Edinburgh), BSides Cymru/Wales, 2024.
- *XS-Leaks – Client-Side Attacks in a Post-XSS World* – BSides London, 2023.
- *HTTP Request Smuggling in the Multiverse of Parsing Flaws* – BSides Singapore, 2022.
- *Learn Hacking Through CTF Competitions* – Division Zero Bug Bounty Quarter, 2022.

Cybersecurity Vulnerability Research & Bug Bounty

2022 – 2023

- Discovered security vulnerabilities in popular open-source software. Credited for 15 vulnerabilities in the CVE database.
- Performed penetration tests for global companies through the HackerOne platform, uncovering > 50 valid security issues.
 - * Achieved maximum lifetime signal-to-noise rating across multiple private & public programs, with zero invalid reports.
 - * Competed against top hackers from around the world and emerged as top bug bounty hunter in the invite-only Ministry of Defense Bug Bounty Programme 2022 and GovTech Government Bug Bounty Programme 2023.

Cybersecurity Competitions

2022 – 2023

- Founded Social Engineering Experts, the top Singapore computer security Capture the Flag (CTF) team in 2022 and 2023.
- Core member and web security player for Blue Water, the global top CTF team in 2023. Finalist @ DEF CON 31-32 CTF.
- Led organization of SEETF, a global competition with >2,000 players and near-perfect public voting scores in 2022-23.
- Built cybersecurity challenges attempted by thousands of players in competitions and on platforms such as Hack The Box.

TECHNICAL SKILLS

Languages: TypeScript · Python · Java · OCaml · Go · SQL · L^AT_EX

Frameworks: React · Next.js · TailwindCSS · Prisma · Flask · Django

Developer Tools: Git · Docker · Vagrant · Google Cloud Platform · Kubernetes · Unix

Cybersecurity Certifications: OSCP · OSWE · CRT · Burp Suite Certified Practitioner

HONOURS & AWARDS

<i>Name</i>	<i>Placing</i>	<i>Type</i>	<i>Scope</i>	<i>Awarder</i>	<i>Year</i>
Encode Club London AI Hackathon	1 st Place, AI x Web3 Build	Hackathon	Global	Encode Club	2024
Cam Hack 2024	2 nd Place	Hackathon	UK	CUCaTS, CUAU	2024
Cambridge Generative AI Hackathon	2 nd Place	Hackathon	UK	GetSeen Ventures	2024
HackSingapore	Finalist (Top 3)	Hackathon	SG	Tribe	2022
STACK the Codes Hackathon	Finalist (Top 7)	Hackathon	SG	GovTech	2021
Tech For Good Festival	Most Impactful	Hackathon	SG	Engineering Good	2021
Today I Learned AI Camp (University)	4 th Place	AI Hackathon	SG	DSTA	2021
Fitzelerate	Finalist (Top 7)	Entrepreneurship	UK	Fitzwilliam College	2024
Government Bug Bounty Programme 8–9	Top Bug Bounty Hunter	Bug Bounty	Global	GovTech	2023
MINDEF Bug Bounty Programme	Top Bug Bounty Hunter	Bug Bounty	Global	MINDEF	2022
LakeCTF	1 st (Finals)	Security CTF	Global	EPFL	2024
Mine the Matrix	Finalist (Top 30)	Security CTF	Europe	Bending Spoons	2024
BSides Cymru/Wales Community CTF	1 st Place	Security CTF	UK	Admiral	2024
pwnEd 5	1 st (Qualifiers), 1 st (Finals)	Security CTF	UK	University of Edinburgh	2024
DEF CON CTF	1 st (Qualifiers), 2 nd (Finals)	Security CTF	Global	Nautilus Institute	2023
HITCON CTF	1 st (Qualifiers), 9 th (Finals)	Security CTF	Global	HITCON	2023
CSAW CTF (Europe)	1 st (Qualifiers) 3 rd (Finals)	Security CTF	Europe	New York University	2023
HackTM CTF	2 nd (Finals)	Security CTF	Global	HackTM	2023
Grey Cat The Flag	3 rd Place	Security CTF	Global	National University of SG	2023
Cyber SEA Games	2 nd Place	Security CTF	SEA	AJCCBC	2022
Best in Knowledge (Cyber)	-	Military Award	SG	MINDEF/SAF	2021
Distinguished Honor Graduate (Cyber)	-	Military Award	SG	MINDEF/SAF	2021
National Olympiad for Informatics	Bronze Award	Programming	SG	National University of SG	2019