

Chinmay Raj Nataraj

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EDUCATION

King's College London
B.Sc. in Computer Science

Sep. 2024 – June 2028
London, UK

- A-Levels: **3 A*** (Chemistry, Computer Science, Mathematics), **1 A** (Physics)

EXPERIENCE

Applied AI Engineer (Part-time)
TrueGreen

Jan. 2026 – Present
London, UK (Hybrid)

- Designed and deployed **RAG pipelines** enabling LLMs to generate grounded, context-aware responses from proprietary documents
- Built ingestion workflows for **PDFs, OCR outputs, and JSON**, including semantic chunking and metadata enrichment
- Integrated **vector databases** (Qdrant, FAISS) to support semantic search, similarity retrieval, and filtering
- Optimized embedding and retrieval strategies to improve relevance, reduce hallucinations, and minimize latency

PROJECTS

Study Buddy

| *React, Node.js, Express, MongoDB*

- Built a full-stack productivity app in **<24 hours** with AI-powered study assistance
- Designed an adaptive scheduling algorithm based on time constraints and confidence levels
- Implemented collaborative notes, reminders, and shared schedules
- Deployed publicly at **study-buddy.fun**

Dash

| *React, Express, Firebase, Google Cloud*

- Led UI, marketing, and social teams while contributing to backend development
- Built and deployed a production platform with **100+ uploads during BETA**

WhatsApp Pro (BETA)

| *Node.js, Puppeteer*

- Built a WhatsApp Web automation tool with scheduling, auto-replies, and bulk messaging
- Achieved **99% delivery reliability** and reduced manual messaging time by **~80%**

Media Mercatum

| *Next.js, TypeScript, Solidity, IPFS*

- Built a decentralized NFT marketplace on **Ethereum Sepolia** for encrypted digital assets
- Implemented **AES-256 encryption**, gasless transactions (EIP-4337), and revenue-sharing smart contracts
- Integrated **Envio GraphQL** for real-time indexing (**~100× faster than RPC**)
- **Winner – Openfort Award (AirPods)**
- <https://media-mercatum.vercel.app>

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, SQL

Frameworks & Libraries: React, Node.js, Express, Next.js, Electron, LangChain

AI & Data: Retrieval-Augmented Generation (RAG), Embeddings, Semantic Search, Vector Databases (Qdrant, FAISS)

Databases & Tools: MongoDB, Firebase, Git, GitHub, Docker, Google Cloud, Heroku, VS Code

ADDITIONAL EXPERIENCE

- Developed custom **web applications, Discord bots, and Windows desktop tools** for clients
- Earned **\$500–\$600**, reinvested into VPS hosting and deployment infrastructure
- Tutored high-school students in **IB Mathematics**, focusing on Calculus, Algebra, and Statistics

EXTRACURRICULAR & HACKATHONS

- **NMES Student Representative**, King's College London
- **EasyA Hackathon Conference (London)** – Blockchain and smart contract development
- **Study Buddy Hackathon** – Built and shipped a full product in under 24 hours
- **Dash Development Team** – Cross-functional collaboration across engineering and marketing