

Aaryaman Sharma

aaryaman1409@gmail.com | +4407984946199 | London, United Kingdom | in/aaryaman1409
github.com/Aaryaman-1409 | aaryaman.uk

Education

University College London (UCL)

Bachelor of Science in Computer Science

Sept 2021 – June 2024

London, United Kingdom

- Graduated with First-Class Honours
- Relevant Modules: Systems Engineering, Algorithms, Object-Oriented Programming, Security, Financial Management
- Dissertation: *"Generating novel motions from a single example using Denoising Diffusion Probabilistic Models"*

Experience

Systems Developer Analyst

Rokos Capital Management

Sept 2024 – Present

London, United Kingdom

- Built an internal intelligence platform using React and ASP.NET Core Web API to analyze and tag industry emails and articles with LLMs; integrated ElasticSearch for fast indexing, Azure Blob Storage for large files, and SQL for time-series data like AUM and headcount
- Automated provisioning of Azure infrastructure — including AVDs and AKS clusters — using Terraform, Helm, and Microsoft Graph API, enabling secure, consistent, and scalable cloud deployments
- Developed custom internal tools with ASP.NET Web APIs and WPF apps to automate Active Directory group management, Opsgenie on-call sync, and end-to-end workstation provisioning (permissions, window layouts, and devices)

Software Engineer Intern

Expedia Group

June 2023 – Sept 2023

London, United Kingdom

- Engineered a Node.js-based performance analytics tool to measure core web vitals and block GitHub pull requests on degradation
- Provided actionable performance suggestions through enriched logs and visualized trends via a React dashboard

Certifications

- ITIL Foundation Certificate - PeopleCert

Projects

WebGL 3D Shader

- Developed a 3D shader from scratch in GLSL, implementing ray-tracing, rasterization, and path-tracing techniques
- Enabled real-time visualization of advanced rendering methods directly in the browser
- Incorporated real-time animation to demonstrate path-tracing progress and animated ray-traced objects

Touchless Kiosks

- Designed and developed a touchless hospital kiosk interface using MediaPipe and React, enabling hand gesture input for webpage navigation
- Implemented touchless navigation and live gesture previews, with a WebExtension frontend for seamless integration
- Demonstrated the system at Great Ormond Street Hospital and incorporated feedback to enhance accessibility features
- Enabled installation as a browser sidebar extension, showcasing live previews of user gestures and interactions

Jellyfin Plugin

- Developed an artwork and metadata scraping plugin in C# and JavaScript for the open-source media library manager Jellyfin
- Collaborated with open-source contributors on GitHub, discussing feature requests, implementations, and managing pull requests

Set Permutation Generator

- Built a Django-based revision tool for discrete math students to generate and analyze set permutations in Cauchy's two-line notation
- Enabled functionality to compute the order, sign, and cyclic form of permutations, providing detailed problem-solving capabilities

Skills

Programming Languages: C#, JavaScript, TypeScript, Python, Java, C

Other Technologies: Azure, Active Directory, React, Node.js, HTML

Development: Kubernetes, Rancher, SQL, Docker, Figma