Sai Raghavan Commandur

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💼 Portfolio: raghavc.dev

Education

University of Surrey   **September 2024 - Present**
BSc Computer Science   *Guildford, UK*
- Predicted Degree Grade: First Class Honours
- Expected Graduation Year: 2028 with Placement Year
- Relevant Modules: Software Engineering, Data Structures & Algorithms, Web & Database Systems, Computer Logic, Programming Fundamentals, Operating Systems

Experience

Web Developer   **Jul 2025 – Present**
CompSoc (Computer Science Society) Surrey   *Guildford, UK*
- Maintaining and refactored a **Next.js + TypeScript** codebase with **SCSS modules**, improving **layout, accessibility and mobile responsiveness**, increasing **mobile engagement by 25%**
- Collaborating with committee members to scope and deploy **7 new features**, implementing **agile workflows** for rapid iteration and feature delivery

Software Engineer Intern   **Jul 2025**
Bright Network IEUK   *Remote*
- Parsed and analyzed **430,000+ HTTP server logs** using **Python**, containerized with **Docker** for scalable and reproducible analysis to identify botnet attack patterns and isolate malicious IP ranges, improving threat detection accuracy by **22%**.
- Designed a multi-layered mitigation strategy, projected to reduce harmful traffic by **18.3%** and enhance system resilience

Software Engineer Intern   **Nov 2021 – Apr 2022**
Fujitsu   *Reading, UK*
- Ranked **Top 3** out of **40+ interns** for delivering impactful projects and presenting to senior leadership.
- Built immersive **AR/VR learning experiences** for a gamified educational platform targeting lower school students, leading to a **42% increase** in user engagement
- **Implemented layered data encryption** in internal tools, reducing critical pre-production vulnerabilities by **30%** and strengthening overall system security.

Projects

GroupPot - Social Betting Platform | *Website*   **NextJS** | **JavaScript (*TSX setup*)** | **NodeJS** | **MongoDB Atlas**
- Built and deployed a full-stack group betting platform with **40+ beta users**, featuring custom settlement logic, automatic refunds, and support for partial/exact match payouts
- Designed and implemented **15+ secure RESTful APIs** using JWT authentication for robust user and betting management
- Utilized **MongoDB Atlas** for document storage, **Node.js** for backend services, and **Next.js** for the **React**-based, server-rendered UI

Budgetly – Finance Tracker | *Source Code*   **Next.js** | **JavaScript (*TSX setup*)** | **Supabase** | **Clerk**
- **Led the development** of a budgeting app for **15+ university students**, using **Next.js** and **TypeScript** for the frontend, **Supabase (PostgreSQL)** for backend data, and **Clerk** for authentication
- Optimized frontend performance to achieve a **98% Lighthouse score** and sub-second load times using caching and static site generation

Portfolio Website | *Website*   **Next.js** | **JavaScript** | **Vercel**
- Developed and deployed a personal portfolio site to showcase experience and projects, attracting **50+ unique visitors/month**

Technical Skills

Programming Languages: Python, JavaScript (*with basic TypeScript*), Java, HTML, CSS, SQL (MySQL)

Developer Tools: Docker, Git, GitHub, VS Code, Postman, Linux (user-level)

Libraries/Frameworks: ReactJS, PostgreSQL, NextJS, NodeJS

Soft Skills: Communication, Problem Solving, Teamwork, Time Management, Pair Programming

Certifications: Databricks Fundamentals