

# Sai Raghavan Commandur

Aspiring Software Engineer | Student Ambassador

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## Experience

### Code Tutor

Sept 2022 – Oct 2023

Code Ninjas

Reading, UK

- Taught 50+ students (ages 7–14) coding fundamentals in JavaScript & Scratch; helped improve coding scores by 35%

### Software Engineer Intern

Jul 2021 – Apr 2022

Fujitsu

Reading, UK

- Led a team to prototype an accessible social media app for elderly users, prioritizing intuitive design
- Boosted student engagement by 42% by developing features for an AR/VR education platform
- Strengthened data security by implementing two encryption methods, reducing vulnerabilities
- Ranked top 3 in all internship stages; presented final project to senior stakeholders

## Projects

### Budgetly – Personal Finance Tracker | React, Next.js, TypeScript, Tailwind CSS, Supabase, Clerk

June 2025

- Built a full-stack budgeting app with per-user authentication via Clerk and Supabase JWTs
- Implemented Supabase Row-Level Security (RLS) policies to enforce secure, per-user data isolation
- Designed responsive UI with charts and custom hooks to track income, expenses, and monthly trends
- Achieved fast page loads with Next.js dynamic routing and caching optimizations

### Personal Portfolio Website | React, JavaScript, Tailwind CSS

June 2025

- Designed and built a clean, responsive portfolio to highlight projects, skills, and coursework
- Implemented smooth scrolling, project galleries, and animated transitions to boost user engagement
- Deployed on Vercel with CI/CD workflows; averages 200+ monthly visits

### FlickFinder – IMDb-Focused REST API | Java, SQLite, Javalin

May 2025

- Built a custom RESTful API to query movies, directors, ratings, and stars from a local IMDb dataset
- Implemented layered architecture with efficient SQL queries and route filtering
- Achieved sub-200ms average response time for common queries

### Morse Code Decoder | C, Raspberry Pi, Breadboard

Nov 2024

- Wrote C programs to process pulse-width timing via GPIO interrupts, converting Morse code signals into readable alphanumeric output
- Enhanced Morse code decoding accuracy by 40% via iterative testing and signal threshold optimization

## Skills

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

**Frameworks & Libraries:** React, Node.js, Tailwind CSS, Supabase, Clerk

**Developer Tools:** Git, GitHub, VS Code, Vite, Vercel, MongoDB Atlas, Postman, Unity, Notion

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

**Certifications:** Databricks Fundamentals Accreditation (2025), Young Enterprise Launchpad Challenge Finalist (2019)

**Languages:** English (Fluent), Tamil (Intermediate)

## Education

### University of Surrey

Guildford, UK

BSc Computer Science

Sept 2024 - Present

- Predicted Degree Grade: First Class Honours
- Expected Graduation Year: 2028
- Relevant Modules: Software Engineering, Data Structures & Algorithms, Web & Database Systems, Computer Logic, Programming Fundamentals, Operating Systems