# Sai Raghavan Commandur

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## Education

**University of Surrey**                                                                                     **Sept 2024 - Present**
*BSc Computer Science (Hons)*                                                                                 *Guildford, UK*
- Predicted Degree Grade: First Class Honours
- Relevant Courses: Artificial Intelligence, Software Engineering, Data Structures & Algorithms, Web & Database Systems, OS

## Experience

**Software Engineer Intern**                                                                                 **Aug 2025 - Present**
*TidalTasks*                                                                                                 *Remote, Canada*
- Redesigned the TidalTasks homepage using **React.js**, refactoring **12+** components and optimizing state management, improving page load speed by **25%** and increasing user engagement across **50+ active users**.
- Reduced backend overhead by 20% by developing a **Python** analysis script to profile **Firebase** API usage, identifying and removing **150+** redundant requests and improving overall system responsiveness.

**Web Developer**                                                                                           **Jul 2025 - Present**
*Surrey Compsoc*                                                                                             *Guildford, UK*
- Delivered **7+ new production features** including event pages, member resources, and committee announcements using **Next.js** and **JavaScript**, improving content accessibility and engagement for **150+ society members**.
- Produced **Figma** prototypes to model system flows and user interactions, incorporating stakeholder feedback during review cycles, reducing rework by **20%** and improving delivery efficiency.

**Code Tutor**                                                                                              **Sept 2022 - Nov 2023**
*Code Ninjas*                                                                                                *Reading, UK*
- Achieved strong learner outcomes for **50+ students**, improving assessment scores by up to **35%** by delivering programming fundamentals through structured, clear, and client-oriented explanations.
- Increased project completion rates by **20%** through structured, real-time debugging sessions using **Scratch**, **Python**, and in-platform IDE tools, helping students diagnose logic errors and stabilize incomplete features.

## Projects

**GroupPot - Social Betting Platform** | *Website* | *Source Code*          **React** | **JavaScript** | **NodeJS** | **MongoDB Atlas**
- Developed and deployed a full-stack group betting platform with **40+ beta users**, featuring custom settlement rules, real-time updates, and multi-user group flows.
- Utilized **MongoDB Atlas** for document storage, **Node.js** for a **RESTful API** backend, and **ReactJS** for the user interface

**Multi-Agent Product Recommendation System**          **AWS Bedrock** | **AWS DynamoDB** | **AWS S3 Buckets** | **OpenAI Models**
- Designed and deployed a scalable recommendation system for e-commerce applications, featuring multi-agent architecture to handle diverse user preferences and deliver personalized recommendations.
- Integrated **AWS Bedrock** for AI agents, **Lambda** functions for real-time processing, **DynamoDB** for scalable data storage, and **Amazon S3** for training data management.

## Certifications

**Cloud & Data:** Oracle Cloud Infrastructure Foundations | Databricks Lakehouse Fundamentals | IBM Cloud Computing Fundamentals

**AI & Machine Learning:** Oracle Cloud AI Foundations | Google – Introduction to Generative AI | Foundations of AI Agents | Building with Agentic AI

## Technical Skills

**Programming Languages**: Python, JavaScript, MySQL, HTML, CSS

**Developer Tools & Platforms**: AWS (EC2, Bedrock, Lambda, S3, DynamoDB), Docker, Figma, Git, GitHub, IntelliJ IDEA, Linux, MongoDB Atlas, PyCharm, VS Code

**Frameworks**: ReactJS, NextJS, NodeJS, MongoDB Atlas, HuggingFace