

# Ranjeth Ravichandran

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## PROFILE

Graduate Software Engineer with First Class Honours in Computer Science and a passion for building scalable, user-focused applications. Proficient in full-stack development, data science, and artificial intelligence. Strong experience in designing software solutions, creating interactive platforms, and integrating APIs. Adept at tackling complex challenges through problem-solving and collaborative teamwork. Actively improving through personal projects and competitive programming.

## EDUCATION

### UNIVERSITY OF READING

Reading, United Kingdom

**Bachelor of Computer Science | First Class Honors**

Graduated Aug 2024

Relevant Coursework:

- **Programming & Algorithms:** Python and Data Science, Fundamentals of Algorithms, Quality and Testing
- **AI & Data:** Artificial Intelligence, Text Mining and NLP, Data Integration & Visualisation
- **Systems & Applications:** Blockchain, VR, System Design, Web Applications

## TECHNICAL SKILLS

**Programming Languages:** Advanced: JavaScript, Python, TypeScript, HTML/CSS; Proficient: Java, MATLAB, SQL  
**Frameworks/Tools:** React.js, Tailwind CSS, Node.js, MongoDB, REST APIs, Scikit-learn, Pandas

## WORK EXPERIENCE

### SHOWCASE AV

Southall, London

Event Contractor

02/2019 – 07/2020

- Managed and executed event setups for high-profile weddings, focusing on audiovisual equipment, stage lighting, and venue décor.
- Led a team of contractors, ensuring the timely and efficient completion of tasks, improving overall event efficiency.
- Developed strong skills in warehouse operations, logistics, and on-site problem-solving.

### ORACLE

Reading, United Kingdom

Observational Internship

03/2021 – 04/2021

- Observed large-scale software development processes, focusing on database management, cloud computing, and software life cycle management.
- Gained insight into enterprise-level solutions and agile methodologies.

### GREGGS

Ealing, London

Team Member

02/2023 – 12/2024

- Coordinated with colleagues to ensure smooth service, developing strong teamwork and task management skills.
- Effectively addressed customer inquiries and resolved issues, demonstrating quick thinking and adaptability.
- Engaged daily with customers and team members, enhancing my ability to communicate clearly and effectively.

## TECHNICAL PROJECTS

### Educational Learning Platform

**Tech:** React, Python, MongoDB, REST API | **Completion Date:** May 2024

Developed an interactive platform featuring an AI-powered chatbot for personalized study assistance. Built secure user blogs with CRUD operations and quizzes, integrating a custom IDE for coding challenges. Improved learning outcomes by 25% through gamification and personalized learning paths.

### League of Legends Profiler

**Tech:** React, JavaScript, League API | **Completion Date:** October 2024

Developed a real-time web application integrating the League API to fetch and display player statistics and match history. Designed advanced search and filter functions to improve data retrieval. Optimized the user experience through interactive charts and responsive design, resulting in increased user engagement.

### Fitness Buddy - Personal Health Tracker

**Tech:** React Native, Node.js, MongoDB, Google Maps API

Created a fitness tracking app to set goals, log daily workouts, and monitor progress using dynamic visualizations. Implemented geolocation to find nearby gyms, enhancing user convenience. Designed a reward-based system to increase user retention by 40%.

### Data Science Salary Predictor

**Tech:** Python, Pandas, Scikit-learn | **Completion Date:** January 2024

Designed and deployed a machine learning model to predict salary ranges for new hires based on experience and education, achieving 90% accuracy.

### Image Compression and Decompression

**Tech:** Python, MATLAB | **Completion Date:** September 2023

Implemented efficient algorithms such as Huffman Encoding and Singular Value Decomposition for image compression.