# Ranjeth Ravichandran

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A highly motivated Computer Science graduate with First Class Honours from the University of Reading, experienced in front-end and back-end development, API integration, and data-driven AI solutions. Skilled in software development lifecycle practices and eager to contribute technical expertise to innovative projects.

## Work Experience

**Team Member |** Greggs | Feb 2023 – Present
- Collaborated in a fast-paced team, maintaining service quality and efficiency.
- Developed analytical problem-solving skills and adaptability through rapid issue resolution.
- Enhanced attention to detail for consistent product quality, valuable in software accuracy.
- Improved communication and teamwork skills through daily customer interactions.

**Event Contractor** | Showcase Weddings Limited | Jan 2020 – Feb 2021
- 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 by 20%.
- Developed strong skills in warehouse operations, logistics, and on-site problem-solving.

**Observational Internship** | Oracle | Mar 2021 – Apr 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.

**Insight Day** | BT Group | Apr 2019 – May 2019
- Engaged in workshops on network engineering and cybersecurity within the telecommunications sector.

## Technical Projects

**Educational Learning Platform (React/Python/Node JS)**
- Developed an interactive learning website featuring **quizzes** built in JavaScript, an **AI-powered chatbot**, a **user blog**, and an **integrated IDE** for coding challenges, offering a comprehensive and personalised user experience.
- Implemented AI chatbot functionality to provide tailored learning guidance and instant support for user questions, enhancing engagement and interactivity.
- Created a secure blogging platform for authenticated users, allowing them to document their learning journey and share insights.
- Integrated an interactive IDE that supports coding challenges by topic, reinforcing hands-on learning and enabling users to practice coding skills directly on the site.

**Pokédex Web Application (React, JavaScript, League API)**
- Built an interactive Pokédex using React and **League API**, dynamically fetching and displaying data in a user-friendly interface.
- Integrated League API to retrieve real-time character data, showcasing skills in API handling and asynchronous operations.
- Enhanced search and filter capabilities, leading to faster data retrieval and improved user experience.

**Data Science & Machine Learning Project (Python, Pandas, Scikit-learn)**
- Built a **classification model** to automate salary categorisation for new hires, reducing negotiation time by 25%.
- **Trained the model** on employee data, achieving a **90% accuracy** rate in predicting salary ranges based on experience and education.

**Image Compression and Decompression (MATLAB)**
- Implemented image **compression and decompression algorithms**, including **Discrete Cosine Transform** (DCT), **Huffman Encoding**, and **Singular Value Decomposition** (SVD).

## Education

University of Reading – Reading, UK
BSc (Hons) in Computer Science | First Class Honours

## Technical Skills

Languages: Python, Java, JavaScript, HTML/CSS, C++, SQL
Tools/Frameworks: React, Git, VS Code
Operating System: Windows, Linux

## Interests

Basketball, Weightlifting, Judo, Monkeys