DARREN SANDHU

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Professional Summary

A highly motivated Computer Science graduate from King's College London with a strong foundation in mathematics (A* in A-level Mathematics) and a passion for software development. Proficient in Python, C-based languages, and cloud computing solutions. Successfully delivered projects in AI/ML, web development, and scalable applications. Skilled in problem-solving, debugging, and team collaboration, with a proven ability to meet deadlines and deliver impactful results. Eager to drive innovation and contribute to dynamic, forward-thinking organizations.

Education

BSc Computer Science (2:1) | Kings College London   **09/2021-09/2024**
Modules:
- Data Structures: 76%
- Database Systems: 63%
- Introduction to Software Engineering: 70%,
- Introduction To Artificial Intelligence: 68%
- Internet Systems: 75%
- Machine Learning: 65%
- Cryptography: 70%
- Individual Project: 69%
- Optimization Methods: 67%
- Compilers And Formal Languages: 78%

A-Levels | Sandwell Central Sixth   **09/2018 - 11/2020**
- Mathematics – A*
- Physics - A
- Biology – B

Projects

Large Language Model - 🔗
- **Technologies**: Python, TensorFlow, Flask, SpaCy (NLP)
- **Description**: Designed and deployed a large language model to automate query resolution for customer support systems.
- **Impact**: Reduced manual query resolution by 60% in simulated testing.

Budgeting Application - 🔗
- **Technologies**: Python, Django, PostgreSQL, React, HTML/CSS, Amazon S3
- **Description**: Developed a gamified full-stack budgeting application to help users track and optimize expenses.
- **Impact**: A seamless budgeting experience for over 200 simulated users with a user-friendly interface and gamified elements.

Trading Calculator - 🔗
- **Technologies**: JavaScript (ES6+), Chart.js, HTML5, CSS3, Java
- **Description**: Developed a web-based trading balance calculator to evaluate strategies, risk management, and account performance. Integrated advanced algorithms for risk/reward analysis, optimal risk, and trade-specific metrics. Used Chart.js for dynamic performance visualizations and balance tracking.
- **Impact**: Enhanced user insights into trading outcomes with real-time calculations and actionable financial metrics.

Experience

Freelance Developer **08/2024-Current**
Fiverr **Birmingham**
- Designed and developed custom web applications and software solutions tailored to clients' specific needs and requirements.
- Delivered high-quality, user-friendly websites and applications, focusing on performance, functionality, and aesthetics.
- Collaborated with clients to define project goals, set expectations, and ensure timely delivery of deliverables.
- Utilized various technologies such as HTML, CSS, JavaScript, and PHP to create responsive and dynamic web experiences.
- Provided ongoing support, troubleshooting, and updates to maintain and enhance client websites and applications.
- Managed project timelines, ensuring consistent communication with clients to meet deadlines and exceed expectations.
- Ensured all solutions were scalable, secure, and optimized for mobile and desktop platforms.

Maintenance Technician **03/2021 to 10/2021**
Macc Care Limited **Birmingham**
- Conducted team meetings to prioritize maintenance issues and identify emergency repairs.
- Collaborated with building managers to assess ongoing needs and plan preventive maintenance schedules.
- Evaluated systems in use to uncover problems, complete maintenance and recommend solutions.
- Maintained available parts, tools and materials inventory to respond promptly to issues.
- Liaised with internal management to support site-wide compliance and adherence to best practices.
- Completed electrical and mechanical repairs with meticulous precision, delivering faultless, accurate results.

Office Administrator **12/2020 to 01/2021**
Moonlight Development Ltd **Birmingham**
- Communicated with office managers to understand department priorities and workload.
- Generated comprehensive quality reports, presentations and spreadsheets, delivering to management within agreed deadlines.
- Managed office correspondence, including emails, phone calls and mail.
- Maintained strict confidentiality and discretion when processing sensitive data and information.
- Facilitated associated departments with clerical and administrative support.

Skills

Technical Skills
- **Programming Languages**: Python (Advanced), C, C++, Java, Rust, Scala
- **Frameworks**: Django, React, Spring Boot
- **AI/ML Tools**: TensorFlow, PyTorch, Reinforcement Learning
- **Database & Backend:** SQL, Data Analysis

Soft Skills
- Project Management
- Excellent Communication
- Strong Analytical Thinking
- Team Collaboration

Languages

English - Native
Punjabi - Intermediate
Hindi - Intermediate