
WILL IRVINE

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Professional Summary

With over 2 years of experience as a software developer, I have worked on projects that enhanced system efficiency. Holding an MSc in Computer Science, I specialise in Python and Java, contributing to projects that improved performance. Currently learning JavaScript and React, I focus on detail and professionalism, ensuring optimal system uptime. I strive to continuously improve and seek practical solutions to challenges, driving successful outcomes.

Skills

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|-------------------------|----------------------------------|
| • Python | • LangChain |
| • React | • SQL |
| • JavaScript | • HTML |
| • Java | • CSS |
| • C | • Azure |
| • C++ | • APIs |
| • Git | • Algorithms and Data Structures |
| • Large Language Models | |
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Work Experience

Key Stage and Technology Coordinator Teacher of Mathematics Kingsdale Foundation School	04/2015 to Current London UK
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- Revamped lesson plans for students in Years 9 and 10, leading to improvements in overall performance.
- Integrated technology into the classroom, increasing student engagement through the effective use of digital tools.
- Mentored trainee teachers, enhancing their teaching practices and classroom management skills.
- Delivered Mathematics instruction to students aged 11-18, with a strong record of students exceeding their target grades.
- Monitored student progress and implemented targeted strategies to maximize academic success.

Functional Skills Coordinator St. Michael's Catholic College	09/2007 to 04/2015 London UK
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- Led the integration of Numeracy Across the Curriculum, improving student skills.
- Created new A-level Mathematics schemes and resources, enhancing student achievement.
- Mentored trainee teachers, ensuring success in teaching assessments.
- Taught students aged 11 to 18, with strong record of student success against target grades.
- Developed strategies that boosted student engagement in Mathematics.

Teacher of Mathematics Shirley High School	09/2004 to 08/2007 Croydon UK
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- Taught Mathematics to students aged 11 to 16, adjusting lessons for different abilities and learning styles.
- Simplified complex topics, improving student comprehension.
- Adapted teaching methods to help students show progress in key areas.
- Formulated engaging lessons, increasing participation.
- Supported students of all abilities, with many progressing toward their target grades.

Analyst Programmer Netvoyager PLC	03/2001 to 11/2001 London UK
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- Developed an operating system for a thin client using C/C++ in Linux, improving system efficiency.
- Created a web browser with TCL for a set-top box, boosting browser speed.
- Responsible for overall build of thin client operating system.
- Worked with teams in web browser development, improving performance.
- Embraced team cohesion to strive for success in a small start-up.

Design/Development Engineer McLennan Servo Supplies Ltd.	10/1999 to 10/2000 Surrey UK
<ul style="list-style-type: none">• Implemented hardware and embedded software in C/C++ (on an FPGA) for a valve controller used in nuclear power stations across Europe, reducing response time.• Designed software in C/C++ to assist in the labelling of cables destined for the Airbus A380 for BAE systems, improving performance.• Developed meticulous system testing procedures, ensuring reliability.• Wrote product specifications, test specifications and manuals.• Commissioned systems dealing directly with customers and on-site queries..	

Education	
MSc: Computer Science University of York	12/2024 York, UK
PGCE: Mathematics 11-18 Institute of Education	07/2004 London, UK
B.Eng: Electronic Engineering (Hons) University of York	07/1999 York, UK
A-Levels and GCSEs: Eltham College A-Levels: Mathematics, Music, Physics GCSEs: 10 including Maths and English.	06/1996 London, UK

Certifications	
CodeSignal Certified, Codesignal, Revisiting Software Design Patterns in Python, 20/02/25	
CodeSignal Certified, Codesignal, Advanced Built-In Data Structures and their Usage, 02/02/25	
Microsoft Certified, Microsoft, Azure Fundamentals, AZ-900, 05/01/23	

Extra-Curricular	
IT At Home Honed skills in Python to control hardware from LEDs to robots using a Raspberry Pi and a BBC micro:bit. Also implemented mods in Minecraft using Python.	
Football Goals, Beckenham Manage and play in weekly 6-a-side football matches.	
Music Global Written, recorded and produced music, arranging for its international release. Also achieved grade VII with distinction on the Tuba and won the Brass Prize at school.	