Abeer Makin

+1 (548)-332-2337 | abeermakin@gmail.com | www.linkedin.com/in/abeer-makin | https://github.com/am101j

TECHNICAL SKILLS

Languages: Java, Python, C, Racket, SQL, JavaScript, XML, HTML

Frameworks and Libraries: Spring Boot, Node.js, OpenCV, TensorFlow, NumPy, Matplotlib, Pandas, Flask, React Developer Tools: Git, VS Code, PyCharm, IntelliJ IDEA, Google Cloud Platform, Spark, BigQuery, AWS, DataDog

EXPERIENCE

Wipro (May 2025 – August 2025)

Reading, United Kingdom

- Designed and deployed enterprise onboarding assistant tool with React and Typescript frontend, leveraged by Java Spring Boot APIs and PostgreSQL, serving 1000+ employees and reducing onboarding time by 25%
- Led development of metric pipelines on GCP with BigQuery for asset risk analysis in the water industry, enabling predictive asset maintenance and preventing £50K in infrastructure failures, through leveraging regression models.
- Leveraged LLM chatbot using Hugging Face transformers on AWS EC2 handling 1000+ equipment maintenance queries
- Delivered business solutions managing deliverables across cross-functional teams using Git and integrating CI/CD pipelines

West Berkshire Council (June 2023)

Newbury, United Kingdom

- · Optimised helpdesk and audit trail processes in SQL systems, improving query performance by 25% and reducing latency
- Automated document processing pipelines via data extraction using XML and JavaScript, eliminating 10+ hours of manual work
- Collaborated on enhancing chatbot integration, utilising Natural Language Processing for improved training while integrating
 DataDog monitoring for performance tracking, increasing query accuracy by 30% and reducing response time to <5 seconds

Siemens (May 2023) London, United Kingdom

- Implemented A/B testing framework for industrial control systems for £100K operations, improving feedback loop efficiency by 12%
- Calibrated digital twin models for manufacturing equipment via real-time sensor data, achieving 85% accuracy in maintenance
- Validated next-gen IoT sensor technologies through software-hardware integration testing methodologies

GeeseHacks (January 2025)

Waterloo, Canada

- Developed high-traffic web application, serving 500+ students at University of Waterloo for study space finding optimization
- Engineered an end-to-end recommendation system with ETL pipelines, real-time user input processing and OOP based Python algorithms, achieving 82% satisfaction rate
- Built a responsive React frontend with live campus mapping and GraphQL API integration, supporting 1000+ queries daily

PROIECTS

Al Billing Anomaly Reporter | FastAPI, CrewAI, Tensorflow, React

December 2024

- Building Al Agent framework processing 500+ bills, achieving 90% anomaly detection accuracy and reducing manual review by 50%
- Implementing ML models with RAG-enhanced LLMs for charge validation, automatically flagging £20K in inconsistencies
- Built end-to-end pipelines with automated stakeholder reporting, delivering actionable insights through interactive dashboards

$\textbf{Resistor Classification} \mid \textit{OpenCV, Tkinter, Python}$

January 2024

- Engineered real-time resistor detection achieving 90% accuracy with GUI interface processing live camera feed
 - Implemented computer vision pipelines using Canny edge detection, HSV spaces, and morphological operations for robust recognition
 - Developed colour band extraction with contour analysis, reducing misclassification errors by 30% under varying lighting

EDUCATION

Bachelor of Computer Science, University of Waterloo, Canada	2024 - Present
A Levels (Computer Science, Further Maths, Physics): Reading Grammar School, United Kingdom	2022 - 2024
GCSE (Maths, Science, Computer Science, Business, Citizenship): The Wren School, United Kingdom	2019 - 2022

ADDITIONAL INFO

Skills

- Problem-Solving, Analytical Thinking, Emotional Intelligence, Multilingual (English, French, Hindi, Punjabi), Microsoft Office

Certifications

· IDEA Silver Award- Digital and Enterprise Skills. Qualified for Silver award in UKMT Math Challenge