Abhinava Sai Bugudi

London, UK (Willing to relocate)

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Profile

First Class Honours Software Engineer specializing in building full-stack, AI-powered applications. Proven ability to drive business impact, demonstrated by developing a FinTech forecasting platform with 85% directional accuracy and productionizing NLP models that boosted e-commerce CTR by 15%. Seeking a challenging software engineering role to apply a versatile skill set in a data-driven environment.

Education

BEng Software Engineering, 1st Class Honours

University of Westminster, London   Sep 2022 – Jul 2025

- **Final Year Project (Voxscribe):** Architected a full-stack handwriting recognition app using a CRNN model, a containerized Flask API, and an Android front-end.
- **A-Levels (Harris Science Academy):** Mathematics, Computer Science, Physics, Chemistry.

Experience and Projects

AI Developer Intern

BuzNear E-commerce Platform (Remote)   Jun 2024 – Sep 2024

- Fine-tuned a 12-layer BERT model for product similarity, improving recommendation click-through rate (CTR) by 15% in A/B testing.
- Owned an NLP summarization microservice that cleared a 70,000-item product description backlog, reducing the merchandising team's manual workload by 40%.

Lead Developer ML Engineer

VolvoxForex (Independent FinTech Project)   Jan 2025 – Present

- Architected a serverless ETL pipeline on AWS (Lambda, S3) to ingest and process over 2GB of financial data daily from 10+ real-time APIs for trading strategy research.
- Developed and backtested an LSTM forecasting model over 5 years of historical data, achieving 85% directional accuracy for 24-hour price movements.

University Robotics Project

Maze Pathfinder   Sep 2023 – May 2024

- Developed control software in Python for an autonomous agent, implementing a Q-learning algorithm that achieved a 99% maze completion rate in complex, dynamic environments.
- Interfaced software with Arduino-based hardware, demonstrating skills in systems integration for a complete mechatronic solution.

Skills

Languages: Python, Java, JavaScript, SQL, R, C#

AI/ML Data: TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, NLP (Transformers), Time-Series (LSTM)

Cloud DevOps: AWS (ECS, Lambda, S3), Azure, Docker, CI/CD, Git, REST APIs, Microservices

Frameworks Web: React, Flask, FastAPI, Android Jetpack Compose

Certifications

- Google Cloud Professional Machine Learning Engineer

- Microsoft Certified: Azure AI Fundamentals (AI-900) Azure Fundamentals (AZ-900)
- SAS Academic Specialisation in Big Data Analytics and Business Intelligence
- DeepLearning.AI – NLP with Transformers
- Advanced Course in Data Science with Python and R (Datahill Solutions)