

ARUN BHARDWAJ

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PROFESSIONAL SUMMARY

Software Engineer at LSEG specializing in automation engineering and cloud-based testing for large-scale financial infrastructure. Proficient in C++, Python, and Node.js across AWS, Azure, and GCP environments. Beyond my day-to-day work, I've built deep learning models and full-stack web applications — reflecting a broader software engineering foundation I'm actively putting to use. Strong in DSA, system design, and ML concepts.

PROFESSIONAL EXPERIENCE

Software Engineer | London Stock Exchange Group (LSEG)

Aug 2024 – Present

- Contributed to Firedrill, Christmas and V17 cloud testing.
- Utilized Calypso and CATT tools for system integration and end-to-end validation of trading workflows in large-scale financial systems.
- Collaborated with cross-functional teams to ensure robust deployment and monitoring of production environments.
- Gained strong business domain knowledge in securities trading, trade lifecycle (front, middle, and back office), and financial market operations within a global fintech environment.

Full Stack Engineer Intern | Cocurate

Jan 2024 – Jun 2024

- Contributed to the development of the MVP, focusing on database schema design and backend architecture setup.
- Demonstrated strong problem-solving and system design abilities during iterative development cycles.
- Recognized by the CEO for professionalism, initiative, and impactful technical contributions to early-stage product development.

EDUCATION

B.Tech in Information Technology | PSG College of Technology, Coimbatore, Tamil Nadu

Nov 2020 – Apr 2024

CGPA: 8.36/10

TECHNICAL SKILLS

Languages: C++, C, C#, Python, JavaScript, SQL, HTML, CSS

Frameworks: Node.js, Express.js, Flask, Next.js

Databases: MySQL, MongoDB, Firebase, PostgreSQL, PGVector

Cloud & DevOps: AWS, Azure, GCP, Git, GitHub, Calypso, CATT, Control-M

Core Skills: Data Structures & Algorithms, System Design, REST APIs, Machine Learning, Deep Learning, CNNs, LLMs, Prompt Engineering, RAG, AI Agents, Vector Databases (PGVector),

PROJECTS

Diabetic Retinopathy Detection

Jul 2023 – Apr 2024

- Built an ensemble deep learning model (VGG19, ResNet50, DenseNet121, DenseNet169) on the APTOS 2019 dataset; achieved superior accuracy through class balancing, hyperparameter tuning, and comparative benchmarking.

Brain Tumor Detection using CNNs

Dec 2022 – Mar 2023

- Implemented a Convolutional Neural Network (CNN) to automate detection and localization of brain tumors in MRI scans, improving diagnostic efficiency.

Smartphone Price Prediction & Baggage Tracking System

Jul 2022 – Nov 2022

- Built a regression-based ML model for smartphone price prediction; developed a real-time baggage tracking solution to enhance airport luggage monitoring.

ACHIEVEMENTS & CERTIFICATIONS

- AWS Game Day** – 2nd Place (IGNITE APAC 2024): Optimized infrastructure using EC2 and Load Balancers to reduce operational costs in a live simulation challenge.
- Zoho Catalyst Hackathon** – Developed a Flask-based complaint registration portal with user authentication and admin management (Sep 2022).
- Certifications:** Snowflake Data Warehouse Essentials | The Complete SQL Bootcamp (Udemy) | Foundation C# with Microsoft (FreeCodeCamp) | Artificial Intelligence – Languify | Securities Trade Lifecycle (Udemy)