

# Anubhav Apurva

ADDRESS	Southampton, United Kingdom	LinkedIn	<a href="https://www.linkedin.com/in/a11apurva">linkedin.com/in/a11apurva</a>
EMAIL	<a href="mailto:anubhav.apurva11@gmail.com">anubhav.apurva11@gmail.com</a>	GitHub	<a href="https://github.com/a11apurva">github.com/a11apurva</a>
Phone	+44 7721549173	G. Scholar	<a href="https://bit.ly/gsa11apurva">bit.ly/gsa11apurva</a>

**PROFESSIONAL SUMMARY** Software Developer with 5 years of experience in building large-scale software products, following agile methodologies. Enterprising with track record of producing innovative solutions, creating proof-of-concepts (PoCs), and papers. Adept at designing scalable architectures and optimizing performance.

<b>EDUCATION</b>	<b>University of Southampton, Southampton, U.K.</b> Master of Science (MSc) - <i>Computer Science</i>	2022-2023
	<b>International Institute of Information Technology (IIIT), Bangalore, India</b> Post Graduate Diploma - <i>Cloud Computing</i>	2021-2022
	<b>Manipal Institute of Technology, Manipal, India</b> Bachelor of Technology (B. Tech) - <i>Computer and Communication Engineering</i>	2014-2018

**EXPERIENCE** **Amadeus IT Group (London, UK) - Software Developer** Oct 2023 - current

- Developing a rule engine for the airline industry (customers include Etihad, Air Canada) based on micro-service-based streaming architecture. This engine processes real-time events in the airline domain, such as tickets, PNRs, and inventories, and executes automated actions based on configurable business rules.
- Language/Technologies: Java, Spring, Kafka, MongoDB, Drools, Docker, OpenShift (Kubernetes), Jaeger, Splunk.

**Hewlett Packard Enterprise (HPC & AI lab, Bangalore) - System Software Engineer II** 2018-2022

- NonStop Servers and SQL/MX Database** (3 years)
  - Implemented features - DUAL table, NEXT\_DAY(), TO\_NUMBER(), INSTR()
  - Made enhancements in cardinality estimates and join enumeration algorithms.
  - Developed infrastructure for storing LOB datatypes.
  - Resolved major and critical escalations.
  - Language: C++
- Database as a Service** (1 year)
  - Led the design and implementation of control plane to provision and manage SQL/MX databases through REST APIs.
  - Features include deployment and deletion of database, adding and removing users, configuring storage, changing user's privilege levels, and starting/suspending of data sources.
  - Languages: Python, Django, shell script.

**PUBLICATIONS**

- Aiding the visually impaired: Developing an efficient braille printer**  
IEEE proceedings of Advances in Computing, Communications and Informatics 2017.  
Authors: Anubhav Apurva, Anupam Misra, Palash Thakur.
- Method for Classifying Log Files** (Patent Application)  
US20200349112A1, IN201941017235  
Authors: Anubhav Apurva, Nallasamy Jayasankar
- Relevance Feedback Based Citation Recommendation for Scholarly Publications**  
IEEE proceedings of International Conference on Electronics, Computing and Communication Technologies 2020.  
Authors: Anubhav Apurva, Aditya S. Verma, Dr. Tribikram Pradhan.

**AWARDS & Achievements**

- Finalist - Amadeus Innovation Programme (LIFT4)**  
Selected among 7 out of 200+ applications for a pre-incubation project optimizing passenger flow at airport checkpoints. If successful, the project will advance to full incubation.
- HPE Early Career Technologist**  
Developed an NLP-based automated triaging system using word representations, reducing manual incident triage time from several days to a few minutes. Presented at HPE TechCon 2020, Orlando, FL.
- Winner - HPE Intern Project Fair**

<b>MSc Dissertation</b>	<b>Machine Learning-Driven Index Management for Improved DBMS Performance</b>	
	<ul style="list-style-type: none"> <li>• Developed a system incorporating Machine Learning for automated index optimization, reducing query execution time and enhancing database throughput.</li> <li>• Experimental results demonstrated up to 12.74% throughput improvement, validating its effectiveness for OLAP and HTAP workloads using TPC-H benchmarks, proving its adaptability to real-world database environments.</li> <li>• Designed a lightweight and efficient algorithm that generates minimal yet high-impact indexes, balancing performance gains with storage overhead.</li> <li>• Findings emphasize how even simple ML models can lead to significant database performance improvements with minimal administrative intervention.</li> </ul>	
<b>Volunteering</b>	<b>Sustainability Representative</b>	Nov 2022 - Sep 2023
	Southampton University Student Union, Southampton, UK	
	<b>General Secretary</b>	Jan 2015 - Dec 2017
	Robotics Society, Manipal University, India	
	<b>Lead of School Contact Programme</b>	Jan 2015 - Jan 2017
	Akshay Urja (Renewable Energy Sources) Society, Manipal University, India	