# Antarang Poogalia

antarangpo@gmail.com |+1 6023886882 | Mobile, AL | LinkedIn | GitHub

## EDUCATION

**Master of Science in Computer Science** **Aug 2022 - May 2024**
Arizona State University, Tempe, AZ GPA: 3.9/4
*Relevant Courses: Human Computer Interaction, Data Visualization, Natural Language Processing*

**Bachelor of Engineering in Computer Science and Engineering** **Aug 2017 - May 2021**
Shri Ramdeobaba College of Engineering and Management, Nagpur, India GPA: 8.67/10
*Relevant Courses: Data Structures & Algo., Distributed Systems, Computer Graphics, Machine Learning*

## WORK EXPERIENCE

**Software Developer | ArcelorMittal Calvert, Calvert, AL** **Sept 2024 – Present**

- Enhanced the Warehouse Management System (WMS) supporting optimized storage with visual info. for 100+ users.
- Built a chatbot using automated knowledge retrieval that reduced recurring support questions and onboarding effort.
- Optimized database indexing and C#/.NET data structures to boost read/write performance by ~20%.
- Updated client with real-time messages from PLC using OpenGL-C++ components making safety issues 0.
- Collaborated with international teams to implement ML algorithms that improved yard storage efficiency by ~40%.
- Automated deployment processes to reduce release downtime by ~30%.
- Debugged and resolved production issues using maintainable version-controlled code, achieving ~99% system uptime.

**Software Development Engineer Intern | Hearst Communications Inc. (Remote)** **Jun 2023 – Aug 2023**

- Modernized Concur expense retrieval for 20,000+ users by providing a unified UI for HR professional.
- Implemented Amazon S3-to-SQL Server data ingestion via Lambda functions saving ~1 hour of manual work daily.
- Optimized SQL Server queries and indexes reducing expense retrieval response time by ~30%.
- Implemented prepared SQL statements to prevent injection attacks and maintain data integrity.
- Integrated backend APIs with UI, enabling HR users to complete expense validation tasks ~40% faster.

**Software Engineer | ZS Associates, Pune, India** **Mar 2021 – Jul 2022**

- Modernized pharma software using Angular UI framework and design principles, improving usability for ~10K users.
- Designed and executed ~250 functional, API, and ETL test cases uncovering ~100 defects pre-release.
- Scaled Java-based UI automation framework, cutting manual effort by ~40% and detecting ~20 defects.
- Contributed to CI/CD integration to streamline releases, doubling deployment speed.
- Delivered consistent QA improvements and usability enhancements, increasing stakeholder satisfaction by ~15%.

## TECHNICAL SKILLS

| | |
|---|---|
| **Programming:** | Java, C#, Python, C, C++, JavaScript, HTML, CSS |
| **Web Framework:** | D3.js, React Native, React, Node.js, Django |
| **ML Frameworks:** | PyTorch, TensorFlow, LangChain, LangGraph, Hugging Face, NumPy, Pandas, Streamlit, FastAPI |
| **Generative AI:** | Agentic AI, RAG, LLM Finetuning, Model Profiling, Ollama, OpenAI, llama, Distributed Training |
| **Databases:** | SQL- Oracle Database, PostgreSQL \| NoSQL - MongoDB, Firebase \| Vector – ChromaDB |
| **Cloud:** | AWS (S3, Lambda, Cloudwatch), GCP |
| **Relevant Skills:** | .NET, OpenGL, PL/SQL, OOP, REST APIs, CI/CD, Design Patterns, Agile, Scrum |
| **Tools:** | Jira, Git, Bitbucket, TFS, Confluence, Splunk, Postman, Bash, Shell |
| **Certifications:** | IBM Data Science |

## PROJECTS

Full-Stack Inventory Management App | *React Native, Express.js, MongoDB, REST APIs*

- Built a cross-platform React Native inventory app with barcode scanning, image upload, and real-time search.
- Developed a scalable Express.js + MongoDB backend with file handling, REST APIs, and robust error management.
- Integrated external APIs (Open Food Facts, UPC Database) for automated barcode-to-product lookup.

Dynamic Risk Visualization Platform | *JavaScript, D3.js, HTML/CSS*

- Built an interactive visual-analytics platform using D3.js (stream graph, circle packing, network, beeswarm, word cloud).
- Implemented real-time geospatial risk mapping with a custom risk-assessment matrix and live incident feed.
- Designed linked, multi-view visualizations enabling spam filtering, event detection, and temporal risk trend analysis.

Personalized Spam Filter for Social Networks | *ML, NLP, Android App, Text Classification, Python, Scikit-learn(Publication: BBRC)*

- Developed an NLP-based spam filter using supervised ML on a dataset of 11K+ social-network messages.
- Built tokenization and vectorization pipelines powering Naive Bayes, Logistic Regression, and SVM models.
- Achieved ~96% accuracy (unbalanced) and ~95% (balanced), improving relevance of real-time user feeds.