

# Antarang Poogalia

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## EDUCATION

### Master of Science in Computer Science

Arizona State University, Tempe, AZ

Aug 2022 - May 2024

GPA: 3.9/4

*Relevant Courses: Human Computer Interaction, Data Visualization, Combinatorial Algorithms, Design Patterns*

### Bachelor of Engineering in Computer Science and Engineering

Shri Ramdeobaba College of Engineering and Management, Nagpur, India

Aug 2017 - May 2021

GPA: 8.67/10

*Relevant Courses: Computer Graphics & GUI Design, Data Structures & Algorithm, System Design, Web Architecture & Technology*

## TECHNICAL SKILLS

**Programming:** Java, C++, Python, C, C#

**Frontend:** React, Typescript, React Native, D3.js, Django, HTML, CSS

**Backend:** Spring, Node.js, Express.js, Expo

**Databases & Cloud:** Oracle, SQL Server, MySQL, Redis, MongoDB, Firebase, ChromaDB, AWS (S3, Lambda, CloudWatch), GCP

**ML Frameworks & Lib:** PyTorch, TensorFlow, LangChain, LangGraph, FastAPI, Hugging Face, NumPy, Pandas, OpenCV

**Relevant Skills:** OOP, REST APIs, Git, Kubernetes, Docker, CI/CD, Jenkins, Jira, Splunk, Postman, Bash, Shell

**Certifications:** [Data Science](#)

## WORK EXPERIENCE

### Full-Stack Software Engineer | ArcelorMittal Calvert, Calvert, AL

Sept 2024 – Present

- Enhanced the Warehouse Management System (WMS) supporting optimized storage with visual info. for 100+ users.
- 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 GRASP 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 ~98% 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 professionals.
- Implemented Amazon S3-to-SQL Server data ingestion via Python Lambda function 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%.

## PROJECTS

### [SwachhMap](#) — Civic Litter Reporting Platform | *React, Node.js, Claude Vision API, Leaflet.js, PostgreSQL*

- Built a full-stack web app, for litter reporting with AI classification, GPS auto-capture and live heatmap visualization.
- Developed a Dashboard for real-time ward-level tracking and cleanup accountability for government officials.
- Engineered performance optimization caching, lazy loading, and query indexing to reduce latency and memory footprint.

### [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.

### [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.