

Arundhati Bandopadhyaya

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Summary

Full-stack engineer specializing in AI-powered product development, with 2+ years building and shipping end-to-end systems across Java, Python, and JavaScript. Experienced in LLM integration, multi-agent workflows, and cloud infrastructure, currently pursuing an MS in Software Engineering Systems at Northeastern.

Work Experience

Northeastern University | *Graduate Teaching Assistant (INFO 7375: AI Engineering & Applications)* Jan 2026 - Present

- Supported instruction for a graduate AI Engineering course of 25+ students, guiding hands-on projects in workflow automation, multi-agent systems, and cloud deployment, achieving 100% project completion.
- Mentored student teams through all stages of AI product development, PRD definition, multi-agent system design, data pipelines, and deployment, with every team successfully delivering functional AI prototypes

Prioriwise | *Full Stack Developer, Intern* Jun 2025 - Aug 2025

- Eliminated data loss risks across 50+ client migrations by engineering a deep-copy system for nested relational data, resolving edge cases around referential integrity, AI conversation history migration, and non-deterministic output regeneration.
- Reduced manual overhead for repetitive workflow management by building an event-driven scheduling system, where task completion automatically triggers the next recurring instance with updated metadata - removing the need for manual re-creation entirely.
- Improved navigability of AI-generated project hierarchies for new users by building an interactive dependency visualization tool from scratch, rendering bidirectional relationships across four entity types with dynamic highlighting and weighted impact percentages.
- Enhanced decision-making for early-stage founders by integrating an LLM assistant with structured prompt engineering, injecting relational organizational data into context windows to generate domain-specific, actionable recommendations.

Persistent Systems | *Software Engineer* Jul 2022 - Jan 2024

- Architected and developed scalable Salesforce solutions with Apex, Lightning Web Components, and REST/SOAP APIs, following best-practice design patterns; configured GitHub actions for CI/CD pipelines, which streamlined deployments and improved release reliability
- Achieved 3x performance improvement through asynchronous processing patterns (Queueable, Batch, Future methods), event-driven architecture with Platform Events, and query optimization strategies while maintaining Salesforce Governor Limits compliance
- Owned complete development lifecycle for 15+ features, leveraging both declarative tools (Lightning App Builder, Flow Builder, Validation Rules) and custom development, collaborating with solution architects, team leads, and clients to deliver robust Salesforce solutions

Software Engineer Intern - Java, Full Stack Jan 2022 - Jul 2022

- Developed full-stack enterprise applications using React and Spring Boot, building REST APIs and responsive UI components for production systems serving 50K+ users across multiple client deployments

Projects

Manuscript - AI Platform for Writers and Readers | <https://www.manuscript.help/> Mar 2026 - Present

- Built a full-stack AI-powered platform for writers and readers using Next.js, FastAPI, and Supabase, featuring market research for book concepts across Google Books, Open Library, and Hardcover APIs, a TipTap-based novel drafting editor with chapter management and drag-and-drop reordering, and an AI writing assistant grounded in the user's specific genre, target audience, and comp titles
- Architected backend deployment on AWS using immutable infrastructure - Packer bakes fresh AMIs on every merge to main, Terraform manages the ALB, Auto Scaling Group, and Route 53 with blue/green instance refresh for zero-downtime deploys, and secrets are stored in SSM Parameter Store and injected at boot
- Implemented full authentication infrastructure including custom SMTP via Mailjet with SPF/DKIM domain verification, Google OAuth via Supabase provider with a Next.js App Router callback route handler, and row-level security policies in PostgreSQL scoped per user across all tables

Paracket - AI Brand Voice & Social Automation | <https://github.com/buildwithari/paracket> Sep 2025 - Dec 2025

- Engineered end-to-end social media automation system triggered via Slack bot, users enter company name, system learns brand voice from 450+ real-time scraped samples, generates trend-responsive content, and automatically posts to Reddit, Twitter, and Mastodon; optimized down to \$0.01 per workflow run.
- Designed workflow with 6 specialized AI models for brand voice analysis, trend detection, content generation, and platform-specific adaptation, automating 10-15 hours/week of manual social media work into a 20-minute automated execution.
- Orchestrated real-time trend detection analyzing 150 Reddit discussions to generate timely, brand-authentic content responding to current conversations.

Skills

- Languages:** Java, Python, JavaScript, SQL, TypeScript
- Backend & APIs:** Spring Boot, Node.js, REST APIs, Microservices, FastAPI, Supabase
- Frontend:** React, Next.js, Redux, Material-UI, Streamlit, HTML, CSS
- Cloud/DevOps:** AWS (EC2, RDS, S3), Terraform, Packer, CI/CD, GitHub Actions
- Databases:** MySQL, PostgreSQL, MongoDB
- AI/ML:** OpenAI API, Anthropic API, LLM integration, Prompt Engineering, Multi-Agent Systems, Workflow Automation (n8n)
- Engineering Practices:** Data Structures & Algorithms, System Design, Design Patterns, OOD/SOLID Principles, Agile/Scrum, Test-Driven Development (TDD)

Education

Northeastern University | *Master of Science, Software Engineering Systems* Boston, MA Sep 2024 - May 2026

Symbiosis Institute of Technology | *Bachelor of Engineering, Electronics* India Jul 2018 - Apr 2022

Achievements

- Featured on Northeastern News:** Recognized for developing AI-powered productivity features showcased at MIT Women's Summit 2025.