

ARUNDHATI BANDOPADHYAYA

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WORK EXPERIENCE

Full Stack Developer, Intern | Prioriwise, Boston MA

Jun 2025 - Aug 2025

- Developed full-stack productivity features including daily task workspace, inline editing, intelligent sorting, and responsive navigation with cross-session state consistency.
- Built interactive dependency visualization using topological sort and DFS to map relationships between objectives, projects, and tasks, reducing strategic planning cycles by 25%.
- Architected automated scheduling infrastructure for recurring tasks with conflict detection and consistency guarantees across distributed systems.
- Built multi-tenant data migration system preserving relational integrity across 50+ accounts with zero data loss and automated conflict resolution.
- Integrated context-aware AI assistant using prompt engineering to deliver domain-specific insights based on organizational task hierarchies.

Software Engineer | Persistent Systems

Jul 2022 - Jan 2024

- Developed and maintained enterprise Salesforce applications for 100K+ daily users, implementing custom automation, business logic, and analytics dashboards that reduced manual operations by 30%.
- Led JavaScript testing initiative for 100+ developers, establishing Jest standards that increased test coverage from 60% to 85% and reduced production bugs by 30%, saving 50 hours/month.
- Built REST APIs and integration services connecting Salesforce with external systems (ERP, payment gateways) using Apex and Java Spring Boot, enabling real-time data sync for \$5M+ in transactions.

Software Engineer, Intern | Persistent Systems

Jan 2022 - Jul 2022

- Developed full-stack web application using React.js, Material-UI, and Java Spring Boot, building 10+ reusable UI components and RESTful APIs for enterprise clients.
- Collaborated with senior engineers on responsive design patterns and API integration architecture for production codebase serving 50K+ users.

PROJECTS

Paracket - AI Brand Voice & Social Automation

Oct 2025

n8n, Python, OpenAI, Reddit API, Slack Bot

- Built Slack-triggered social automation system that learns brand voice from 450+ scraped samples, generates trend-responsive content, and auto-posts to Reddit, Twitter, and Mastodon at \$0.01 per run.
- Developed workflow with 6 specialized AI models for brand analysis, trend detection, and content generation, automating 10-15 hours/week into 20-minute execution.
- Implemented real-time trend detection analyzing 150 Reddit discussions to generate timely, brand-authentic content.

AWS Cloud Infrastructure

Sep 2025

Packer, Terraform, EC2, Load Balancer, CloudWatch, Auto Scaler, GitHub Actions

- Provisioned scalable AWS infrastructure using Terraform modules for VPCs, EC2, RDS, S3, and Auto Scaling with IAM roles, KMS encryption, and Secrets Manager.
- Automated infrastructure deployment with GitHub Actions CI/CD pipelines for Terraform workflows.
- Implemented CloudWatch monitoring dashboard with custom metrics, Load Balancers, Route 53, and scaling policies for high availability.



Reliability-First | Full Stack Software Engineer

EDUCATION

Northeastern University, Boston

Master of Science in Software Engineering Systems

Object-Oriented Programming, Data Structures & Algorithms, Network Structures & Cloud Computing, Web Design & User Experience, Distributed Systems, Design Patterns, Computer Networks

Sep 2024 - May 2026 (expected)

Symbiosis Institute of Technology, India

Bachelor of Technology in Electronics & Telecommunications

Jul 2018 - Apr 2022

SKILLS

Languages

Java, Python, C++, JavaScript (ES6+), SQL (MySQL, PostgreSQL), NoSQL (MongoDB)

Backend & Systems

Spring MVC, Node.js, Django, Redis, REST APIs, Microservices

Cloud & DevOps

AWS (EC2, S3, CloudWatch), Azure, GCP, Docker, Kubernetes, Terraform, Packer, CI/CD

Frontend

HTML, CSS, React, Redux, Next.js, Material-UI

Tools

Git, Jenkins, Postman, Jest, Linux, Agile

Fundamentals

Data Structures & Algorithms, Distributed Systems, Design Patterns, System Design