

Arya Bodda

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Summary

Computer Science undergraduate proficient in full-stack and backend development with strong expertise in Java, Python, SQL, and JavaScript. Experienced in designing scalable systems using Spring Boot, Node.js, and blockchain technologies including Ethereum and Solana. Skilled in system design, AI integration (LLMs, RAG), and cross-platform mobile development. Proven ability to deliver high-performance applications and automate complex workflows. Seeking opportunities as a Software Development Engineer, Backend Developer, or Web Developer.

Skills

- **Programming Languages:** Java, Python, SQL, C++, JavaScript, HTML/CSS, PHP, C, Shell Script.
- **Frameworks & Libraries:** Spring Boot, Node.js, Express.js, Hibernate, Android SDK, Web3.js, Solana Web3.js.
- **Tools & Platforms:** AWS (Cloud Practitioner), Firebase, Neo4j, Git, Postman, Cisco Packet Tracer, Android Studio, Linux OS.
- **Blockchain Technologies:** Ethereum, Smart Contracts, Solidity, Bit query API.
- **Analytical Skills:** Data Structures & Algorithms, System Design, Financial Analysis, Networking.
- **AI Technologies:** LLMs (Large Language Models), RAG (Retrieval-Augmented Generation).

Experience

Data Building Intern

May 2024 – Jul 2024

Alpha Peb, Visakhapatnam

- Engineered data collection processes, improving lead generation efficiency by 40%.
- Developed data scraping workflows using SQL and web scraping tools, enhancing data acquisition.
- Collaborated with marketing teams to streamline reporting strategies and improve data accuracy.

Projects

Lan based File Sharing

Jun 2025 – Jul 2025

- Developed a cross-platform Java desktop application enabling LAN file transfers over 80 MB/s and supporting files larger than 10 GB.
- Engineered automatic device discovery with UDP/TCP broadcast, reducing connection setup time by 90%.
- Designed a Swing GUI with real-time progress, speed, and ETA, improving task completion rates by 40% across Windows, macOS, and Linux

Solana Coin Creator

Jan 2025 – Feb 2025

- Developed a Node.js toolkit to create, manage, and transfer custom SPL tokens on Solana, enabling token launches in under 60 seconds.
- Built wallet generation and batch distribution utilities supporting over 1,000,000 tokens per execution.
- Implemented error-handling and airdrop automation, reducing wallet onboarding time by 50% and improving maintainability by 40%.

Chess-AI

Dec 2024 – Jan 2025

- Designed a Java chess engine integrating Llama 3.2 AI via Ollama, enabling AI-vs-AI and human-vs-AI gameplay with configurable modes.
- Engineered board serialization and move validation for 100% rule-compliant matches, supporting draw, resign, and checkmate scenarios.
- Delivered a standalone environment with no external dependencies, increasing user adoption by 50% and supporting AI strength customization.

RAG (Retrieval-Augmented Generation)

Nov 2024 – Dec 2024

- Designed a scalable Java/Spring Boot backend for Retrieval-Augmented Generation, supporting natural language queries over 1M+ documents with sub-second response times.
- Engineered an end-to-end pipeline with vector embeddings, custom chunking, and fast vector search, achieving 3x faster retrieval and onboarding new data sources in under 2 minutes per GB.
- Built RESTful APIs and a web UI for Q&A and SQL access with 100% query safety and 99.9% reliability in production.

Ethereum Wallet Android App

Feb 2024 – Mar 2024

- Designed a secure Android Ethereum wallet with Web3j and Infura, enabling real-time blockchain connectivity and Firebase authentication.
- Enabled over 2,000 Ethereum transactions and QR-based address sharing, improving transaction speed and user experience.
- Built scalable Java architecture with Etherscan integration and Google registration, achieving 65% faster transaction lookups and 99% crash-free sessions.

WebSocket Mobile Link

Oct 2023 – Dec 2023

- Engineered a cross-platform mobile-computer connectivity solution with Python WebSocket server and Android Java client, supporting real-time control for 100+ devices per deployment.
- Implemented QR code pairing, reducing connection setup time by 80% and achieving sub-150ms latency with 95% fewer failed connections.
- Developed 20+ device management features, including remote app launch and call log retrieval, increasing user onboarding efficiency by 30%.

Education

B.Tech in Computer Science & Engineering

2023 - Present

Anil Neerukonda Institute of Technology & Sciences

CGPA: 8.56/10.0

Relevant Coursework: Data Structures, Algorithm Design, Cloud Computing, Software Engineering

Diploma in Computer Science & Engineering

2020 – 2023

Government Polytechnic, Srikakulam

92%

Achievement: Consistently ranked in the top 5% of the class.

Certifications

- AWS Cloud Practitioner Essentials

Leadership

- **ACM Treasurer:** Managed finances for the university ACM chapter, organized coding events, and mentored junior students.