

# ARYA BODDA

Srikakulam, Andhra Pradesh +91-9966509079 aryabodda@gmail.com  
[linkedin.com/in/arya-bodda](https://www.linkedin.com/in/arya-bodda) [github.com/aryabodda4567](https://github.com/aryabodda4567)

---

## SUMMARY

A computer science undergraduate in my penultimate year, passionate about building scalable software solutions. Seeking to leverage strong skills in Java, Python, data structures, algorithms, and system design in a Software Engineering Internship or Job. Eager to contribute to projects in software development, web development, backend development, AI integration, and blockchain.

---

## SKILLS

- **Programming Languages:** Java, Python, C/C++, JavaScript, SQL, Shell Script, HTML/CSS.
  - **Technical Skills:** Data Structures, Algorithms, System Design, Machine Learning, Natural Language Processing (NLP), Distributed Systems, Mobile Development (Android), REST APIs.
  - **Developer Tools & Environments:** Git, Linux/Unix, AWS, Firebase, Postman, Android Studio, Docker.
  - **Frameworks & Libraries:** Spring Boot, Node.js, Express.js, Hibernate, Android SDK, Web3j.
- 

## INTERNSHIP EXPERIENCE

### Data Building Intern | Alpha Peb, Visakhapatnam

May 2024 – Jul 2024

- Orchestrated automated data collection and scraping workflows using Python and SQL, which improved lead generation efficiency by 40%.
  - Integrated marketing data sources within a Linux server environment using Python; enhanced data accuracy, reducing reporting errors by 15% and improving strategic decisions.
- 

## PROJECTS

### LAN-Based File Sharing

Jun 2025 – Jul 2025

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

### Chess App

Dec 2024 – Jan 2025

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

### RAG (Retrieval-Augmented Generation)

Nov 2024 – Dec 2024

- Prototyped a scalable Java/Spring Boot backend for Retrieval-Augmented Generation, supporting natural language queries over 10,000+ documents with sub-second response times.
- Architected an end-to-end pipeline with vector embeddings, custom chunking, and fast vector search, achieving 2x faster retrieval and onboarding new data sources in under 5 - 10 minutes per GB.
- Assembled 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.
- Established 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 devices.
- Implemented QR code pairing, reducing connection setup time by 80% and achieving sub-150ms latency with 80% fewer failed connections.
- Developed 20+ device management features, including remote app launch and call log retrieval, increasing user onboarding efficiency by 30%.

---

## **EDUCATION**

### **Anil Neerukonda Institute of Technology & Sciences (2023 – 2026, expected)**

- Bachelor of Technology in Computer Science and Engineering.
- Relevant Coursework: Data Structures, Algorithm Design, Cloud Computing, Software Engineering.
- GPA: 8.5/10

### **Government Polytechnic, Srikakulam (2020 – 2023)**

- Diploma in Computer Engineering.
- Achievement: Consistently ranked in the top 5% of the class.
- GPA: 9.2/10.0