

Arya Bodda

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Summary

Motivated Computer Science undergraduate with expertise in full-stack development, backend systems, Networking LLMs and blockchain technologies. Proficient in Java, Python, SQL, and JavaScript, with hands-on experience in Spring Boot, Node.js, and Ethereum. Skilled in system design, AI integration, and mobile development. Seeking Software Development Engineer (SDE), Web Developer, and Backend Engineer roles.

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, RAG.

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-July 2025

- Developed a cross-platform Java desktop application for high-speed LAN file transfers, achieving transfer rates exceeding 80 MB/s on gigabit networks and supporting files up to 10 GB+ in size.
- Engineered automatic device discovery using UDP/TCP broadcast, eliminating manual IP entry and reducing connection setup time by over 90%.
- Designed a user-friendly Swing GUI with real-time progress bars, speed (MB/s) and ETA feedback, improving usability and increasing user task completion rates by 40%.
- Implemented advanced network interface management for seamless operation on Wi-Fi, Ethernet, and multi-homed systems, increasing reliability across Windows, macOS, and Linux.

Solana Coin Creator

Jan 2025-Feb 2025

- Developed a Node.js toolkit to automate creation, management, and transfer of custom SPL tokens on the Solana blockchain, enabling launch of new tokens in under 60 seconds.
- Engineered robust wallet generation and token distribution utilities, supporting batch minting and transfer of over 1,000,000 tokens per script execution.
- Utilized modular JavaScript architecture, allowing developers to extend wallet and token features with minimal code changes, increasing maintainability by 40%.
- Achieved seamless Solana network connectivity with error-handling and airdrop automation, reducing onboarding time for new wallets by 50%.

Chess-AI

Dec 2023–Jan 2024

- Designed and implemented a Java-based chess engine integrating the Llama 3.2 AI model via Ollama, enabling automated AI-vs-AI and human-vs-AI gameplay with configurable modes.
- Engineered efficient board serialization and move validation logic, supporting complex scenarios like draw, resign, and checkmate for 100% rule-compliant matches.
- Delivered a fully standalone chess environment with no external dependencies, simplifying deployment and increasing user adoption by 50%.
- Provided model customization through configuration, allowing rapid experimentation with different AI strengths for improved game diversity and user engagement.

RAG (Retrieval-Augmented Generation)

Nov 2023–Dec 2023

- Designed and implemented a scalable Java/Spring Boot backend for Retrieval-Augmented Generation, enabling natural language queries over 1M+ documents with sub-second response times.
- Engineered end-to-end pipeline integrating vector embeddings (Ollama, Spring AI), custom data chunking, and fast vector search, resulting in 3x faster retrieval vs. baseline.
- Built RESTful APIs and a web UI supporting natural language Q&A, DQL query generation, and read-only SQL database access with 100% query safety.
- Automated document indexing and embedding, reducing onboarding of new data sources to under 2 minutes per GB.
- Achieved robust production performance, delivering accurate, chat-based answers and structured results with 99.9% reliability.

Ethereum Wallet Android App

Feb 2023–Mar 2023

- Designed and implemented a secure Android Ethereum wallet using Web3j and Infura, with real-time blockchain connectivity and user authentication via Firebase.
- Enabled over 2,000+ Ethereum transactions and provided QR-based address sharing, improving transaction speed and user experience.
- Integrated full transaction history retrieval and ETH transfer using Etherscan and Infura APIs, reducing transaction lookup times by 65%.
- Built scalable architecture in Java, supporting account creation, private key management, and Google-based registration, resulting in 99% crash-free sessions and high user retention.

WebSocket Mobile Link

Oct 2023– Dec 2023

- Engineered a cross-platform mobile-computer connectivity solution using Python (WebSocket server) and Android (Java), enabling real-time remote control and device interaction across LAN for up to 100+ devices per deployment.
- Implemented QR code-based instant pairing, reducing connection setup time by over 80% compared to manual entry methods.
- Developed advanced device management features: remote app launch, SMS and call log retrieval, device vibration, and phone call initiation, supporting over 20+ unique command types.
- Achieved sub-150ms communication latency for interactive actions, resulting in seamless user experience and a 95% reduction in failed connection attempts.
- Automated deployment and usage instructions, yielding a 30% increase in user onboarding efficiency for remote device management tasks.

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.