

BARANI V A

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Education

Master of Science in Computer Science

2024 - 2026

Valliammai College for Women

Chennai, Tamil Nadu

Bachelor of Computer Application, CGPA: 8.86/10.00

May 2024

Vels University (3rd rank, 3,000 scholarship)

Chennai, Tamil Nadu

Experience

Python Development Intern

Apr 2025 – May 2025

Career Schools HR Solution

Chennai, Tamil Nadu

- Built ZeroInput, privacy-first workflow assistant using neural networks and local language models for Windows
- Implemented on-device automation with context-aware suggestions, ensuring distributed data processing locally
- Designed scalable architecture for productivity enhancement while maintaining complete user data privacy

Mobile App Development Intern

May 2025 – Jun 2025

Ramco Cements

Chennai, Tamil Nadu

- Developed Android application for MACE division using React Native with comprehensive data collection system
- Built automated report generation and analytics dashboard handling large-scale business data processing

Technical Projects

Bart Programming Language | *Python, Compiler Design*

2024

- Designed custom programming language with lexical analyzer, parser, and interpreter from scratch
- Implemented arithmetic operations, conditionals, loops, and I/O with comprehensive language processing
- Demonstrates deep understanding of compiler theory, syntax analysis, and language runtime design

MindScope Task Management | *JavaScript, React, API Integration*

2025

- Created scalable project management tool with phase-based breakdown and real-time progress tracking
- Implemented dual-level progress monitoring with intuitive visual interface and cross-platform compatibility

Family Budget Tracker | *JavaScript, Local Storage API*

2025

- Built cross-device financial app with multi-user conflict resolution and JSON import/export functionality
- Engineered data integrity features with seamless synchronization across devices and robust error handling

Technical Skills

Languages: Python, JavaScript, Java, C++, Go, SQL, HTML/CSS

Frameworks: React, React Native, Node.js, LangChain, Neural Networks

Systems & Tools: Unix/Linux, Google Cloud Platform, Docker, Git, CI/CD

Specializations: Mobile Development, Distributed Systems, Machine Learning, Natural Language Processing

Leadership & Achievements

Team Leader, Google Solutions Challenge

2025

Led voice-based job platform using GCP for scalable backend

- Developed offline-first application for blue-collar workers with regional language voice recognition support

Project Administrator, GirlScript Summer of Code

2025

Selected as a mentor for contributors in open-source development

- Managing project development lifecycle, guiding multiple contributors, and ensuring code quality standards

Full-Stack Developer, Bolt Hackathon

2025

Built AI movie platform using GPT-3.5 Turbo and LangChain

- Integrated OMDB API with context-aware memory chains and implemented rate limiting for optimal performance

Additional

Research: Published "AI Misinformation on Social Media" at Int'l Conference on Next-Gen Computing: Driving Innovation and Intelligent Systems for the Future 2025

Open Source: Active contributor to Hacktoberfest 2024, experienced in collaborative development