

MAHANYAS BAIRA

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EDUCATION

Colorado State University <i>Bachelor of Science in Computer Science</i>	Fort Collins, CO Aug. 2024 – Dec. 2027
DRS International School <i>International Baccalaureate Diploma Programme (IBDP)</i>	Hyderabad, India Aug. 2022 – May 2024

EXPERIENCE

ML Research Assistant <i>Computer Science Department, CSU</i>	Sep. 2025 – Present Fort Collins, CO
<ul style="list-style-type: none">Identified gaps in collaboration classification across 11,000+ messages from 24 teamsConstructed a Python ML pipeline using network analysis on AWS and CSU's Falcon HPC Cluster, improving F1 from 0.70 to 0.75+Improved collaboration-type classification accuracy by 20%, directly shaping CS curriculum decisions	
Systems Software Engineer <i>Colorado State University</i>	Mar. 2025 – Present Fort Collins, CO
<ul style="list-style-type: none">Investigated provisioning bottlenecks across 600+ Windows endpoints in a large university IT environmentEngineered Python and PowerShell tooling to automate AD management, SCCM imaging, and GPO enforcementReduced provisioning time by 40% and compliance overhead by 30% across all managed endpoints	
Software Engineer Intern, Cybersecurity Team <i>Division of IT, CSU</i>	May 2024 – May 2025 Fort Collins, CO
<ul style="list-style-type: none">Engineered internal security automation tools in Python, Flask, and SQL to process and triage alerts in real-timeReduced manual response time by 60%, supporting 10,000+ devices across CSU's campus infrastructureDeveloped backend scripts automating vulnerability scanning across 5,000+ endpoints; cut reporting time by 300%	
AI/ML Research Intern <i>International Research Program Letter of Rec — Mentor: Dr. Aleksandar Jevremovic, Harvard</i>	Jun. 2023 – Oct. 2023 Remote
<ul style="list-style-type: none">Investigated performance bottlenecks in deep learning workflows on distributed HPC cluster environmentsDeveloped 3+ neural network models in TensorFlow and PyTorch with parallelized training pipelinesReduced model training time by 25%; produced 5+ technical reports and a 15-page research paper	

TECHNICAL PROJECTS AND ACHIEVEMENTS

NeuroSync <i>Next.js, TypeScript, Supabase, Gemini 2.5, Cloudflare R2, Clerk</i> GitHub	2026 – Present
<ul style="list-style-type: none">Constructed a 3-layer multimodal AI pipeline ingesting PDFs, audio, and video to synthesize researchProgrammed Gemini 2.5 agents for timeline extraction, contradiction detection, and cited report generation	
HybridHerd <i>React Native, Node.js, GraphQL, scikit-learn, PostgreSQL</i> 1st Place — Hack4Health 2026	Apr. 2026
<ul style="list-style-type: none">Assembled cross-platform livestock health app (React + React Native) with Node.js/GraphQL and FastAPITrained ML classifier on real-time IoT wearable telemetry for early BRD livestock disease detection	
AgriVerse VR Simulator <i>Unity, C#, MRTK, XR Interaction Toolkit</i> 1st Place — CSU Engineering Challenge	Dec. 2025
<ul style="list-style-type: none">Led 3-person team to ship 10+ MR/VR agricultural simulations in Unity and C# using Agile and Git	

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, HTML/CSS, Python, Java, C/C++, SQL
Frameworks: React, Next.js, Node.js, Express.js, Django, Flask, FastAPI, JUnit, Tailwind CSS
Databases: MySQL, PostgreSQL, MongoDB
Developer Tools: Linux, Git, GitHub, Docker, VS Code, IntelliJ, PyCharm, Eclipse, Postman, JIRA, Figma
Libraries: pandas, NumPy, Matplotlib, scikit-learn, TensorFlow, PyTorch, Keras

CERTIFICATIONS

[Microsoft Azure AI Essentials](#) | [Google Cloud AI](#) | [LambdaTest Test Automation](#) | [Atlassian ITSM](#)