

Manas Navale

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EDUCATION

Texas A&M University <i>Bachelor of Science in Computer Engineering, Minor in Mathematics, GPA:3.7/4.0</i>	College Station, TX Aug. 2023 – May 2027
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EXPERIENCE

App Security Intern <i>AIG — American International Group</i>	June 2025 – Aug 2025 Houston, TX
<ul style="list-style-type: none">Automated AppSec workflows with Python, Bash, and Azure, reducing manual workload by 30% and accelerating DevSecOps processes.Performed penetration tests on 15 applications using Burp Suite, OWASP ZAP, and Nmap, uncovering critical vulnerabilities and supporting remediation to reduce risk exposure.Supported post-test remediation activities, documenting mitigation steps, advising on secure configuration changes, and performing verification testing.Collaborated on LLM security use cases, evaluating AI-driven tools and risk mitigation strategies to strengthen application security posture.Supported 100+ employees with troubleshooting and onboarding for internal applications, ensuring smooth day-to-day operations and minimizing downtime	
Machine Learning Research Assistant <i>Texas A&M University</i>	March 2023 – Feb 2024 College Station, TX
<ul style="list-style-type: none">Developed a novel path planning algorithm by integrating deep learning (PyTorch) with graph theory, enabling drones to navigate cluttered environments with improved efficiencyUtilized onboard sensor data (LiDAR, IMU, GPS) to train and refine trajectory models, enhancing real-time decision-making and reducing collision risk.	
Computational Neuroscience Research Assistant <i>University of North Texas</i>	Sept 2021 – Apr 2023 Denton, TX
<ul style="list-style-type: none">Designed and developed a VR grocery store environment in Unity (C#), enabling immersive simulations for cognitive neuroscience research.Built experimental workflows with Pydra for preprocessing and managing large-scale fMRI and EEG datasets, streamlining data pipelines for analysis and model training.Integrated neuroimaging data with VR interaction metrics, enabling multi-modal analysis of cognitive engagement and supporting dementia-focused research outcomes.	

PROJECTS

Vagabond – Real-Time AI Incident Copilot <i>Cloudflare Workers, Wrangler, React, Vite</i>	Jan 2026 – Present
<ul style="list-style-type: none">Built a real-time AI incident copilot that enables teams to collaborate during incidents and generate structured incident artifacts.Integrated a React, Vite frontend with Cloudflare Workers API and Durable Objects to create a stateful edge system.	
BirdBook (TAMU Hackathon Winner) <i>TypeScript, Next.js, Flask, Jinja2, SQLite, PyTorch</i>	Oct. 2025
<ul style="list-style-type: none">Built a web application that identifies bird species from user-uploaded images using a computer vision model.Implemented a Flask-based API for image ingestion, model inference, and species metadata retrieval.	
Cloudy <i>Amazon ECR, Amazon ECS, Docker, Terraform, Python</i>	Dec 2024 – Jan 2025
<ul style="list-style-type: none">Provisioned AWS ECS infrastructure with Terraform to run Dockerized Python services using Amazon ECR.Deployed and updated services by registering new ECS task definitions with built-in health checks.	

TECHNICAL SKILLS

Languages: Python, C++, C#, R, TypeScript, SQL, Dart, Bash, Rust

Frameworks: React, Flutter, Bun, Next.js, Node.js, Flask, TensorFlow, PyTorch, Unity, UE5, OpenCV

Developer Tools: Git, Docker, Terraform, AWS, Firebase, Cloudflare Workers, Godot, MongoDB, Visual Studio

Security Tooling: Metasploit, Burp Suite, OWASP ZAP, Nikto, WPScan, DIRB, Sysinternals Suite, PowerShell, Linux CLI, Nmap, Browser DevTools