GRAYSON ROBBINS

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Full-stack software engineer with production experience building AI-powered applications, autonomous end-to-end product development, and scaling systems from scratch. Proven track record shipping to 100+ users as intern, optimizing API performance by 85%, and driving deployment automation. Passionate about simplifying complexity and building products that matter. Active Secret clearance.

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, Bash, Go/Golang (learning), Rust (academic), C++ (academic), Java (academic) | **Frontend:** React, Next.js, HTML/CSS, Tailwind | **Backend:** Node.js, Express.js, REST APIs, Flask | **Databases:** PostgreSQL, MongoDB, Redis, Prisma ORM | **Cloud/DevOps:** AWS (EC2, S3, CloudWatch), Terraform, Docker, Git, CI/CD | **AI/ML:** LangChain, RAG, Embeddings, LLM Integration, OCR

PROFESSIONAL EXPERIENCE

Test Engineer | Summit TRC, Huntsville, AL | November 2025 – Present
- Built infrastructure automation from scratch using Terraform for 12 multi-OS VM variants (Windows 10/11/Server, RHEL 8/9, Ubuntu 22) in airgapped environment
- Developed PowerShell CLI tools reducing VM deployment complexity, enabling single-command provisioning across all environments
- Architected automated configuration injection system leveraging INI files and ISO runtime modification

Software Engineer | Watts.ai, Huntsville, AL | June 2025 – November 2025
- Architected and developed production inventory management system from ground up as sole engineer serving 50+ internal users using TypeScript, React, Express.js, Prisma ORM, and PostgreSQL
- Integrated Python OCR pipeline processing 200+ documents weekly, reducing manual data entry time by 60% through automated extraction
- Designed intuitive UI/UX achieving high user satisfaction through iterative stakeholder feedback and rapid prototyping

Software Engineering Intern | Watts.ai, Huntsville, AL | September 2024 – May 2025
- Drove development of AI-powered commercial application utilizing LangChain, RAG, and embeddings, shipping to 100+ beta users in production
- Optimized Express.js backend with MongoDB and Redis caching, reducing API response time from 800ms to 120ms (85% improvement)
- Implemented AWS CloudWatch logging and monitoring achieving 99.5% uptime across distributed services
- Built comprehensive testing suite with Jest achieving 85%+ code coverage and automated GitHub Actions CI/CD pipeline
- Integrated third-party APIs including ScraperAPI, OpenAI, Stripe, and affiliate platforms into cohesive product experience

- Implemented GitHub Actions to enforce testing procedures and successful test passes before any update to production codebases.

Research Assistant | Center for Cybersecurity Research & Education, UAH | September 2023 – August 2024
- Developed network security tool for Department of Defense using Python, Wireshark, and VirusTotal API

- Implemented packet analysis system detecting malicious traffic patterns with 95%+ accuracy
- Delivered technical documentation on Industrial Control System security solutions to Army ERDC engineering team

EDUCATION

Bachelor of Science in Cybersecurity Engineering, Magna Cum Laude | University of Alabama in Huntsville | May 2025