MARK MORGAN

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SUMMARY

Fullstack developer with hands-on experience delivering projects end-to-end — from design and backend APIs to frontend interfaces and deployment. Actively pursuing a B.S. in Computer Science while fully available for entry-level roles and internships now.

TECHNICAL SKILLS

Programming Languages: TypeScript, JavaScript, Python
Backend: Node.js, Express.js, PostgreSQL, Prisma, Redis, BullMQ, GraphQL, MongoDB, Socket.io
AI/ML: OpenAI Agents SDK, CrewAI, LangGraph, MCP, OpenAI API, Anthropic API
Frontend: React, Next.js, TypeScript, Tailwind CSS, Astro
Cloud & DevOps, Tools: AWS (EC2, S3, Lambda), DigitalOcean, Docker, NGINX, CI/CD, GitHub Actions, Git, Jest
Architecture: System Design, Microservices, Caching, Database Optimization, API Design
Development Practices: Code Reviews, Debugging, Testing (Jest), Clean Code Principles, API Documentation, Git Version Control

PROJECTS

Lingput – AI-Powered Language Learning Platform | lingput.dev | github.com/markmdev/lingput
Technologies: Node.js, Express.js, PostgreSQL, Redis, Next.js

- Resolved UI blocking issue during long-running story generation (~30s) by implementing a background job queue with **BullMQ + Redis** and streaming real-time progress updates to the UI.
- Reduced application load time from **600 ms to 85 ms** (-85.8%) by implementing caching for frequent database queries.
- Developed automated **CI/CD pipeline**, reducing deployment time from **25 minutes to 5 minutes** through full automation.
- Eliminated **1.3s request latency** during accessToken refresh by migrating session management from relational DB to **Redis**.

Personal Portfolio Website | markmdev.com | github.com/markmdev/personal_website
Technologies: Astro, TailwindCSS, TypeScript

- Achieved perfect Lighthouse scores (**100/100**) across Performance, Accessibility, Best Practices, and SEO metrics through optimized static site generation and asset delivery
- Implemented sub-500ms load times with zero blocking resources and minimal cumulative layout shift (0.017)

EDUCATION

Southern New Hampshire University | Bachelor of Science in Computer Science | GPA: **4.0/4.0** | Expected Graduation: October 2026

HONORS & AWARDS AND ORGANIZATIONS

President's List | Southern New Hampshire University | **Academic excellence** with GPA 3.7+
Coding United Programming Club | Active member collaborating on real-world software development projects and peer learning initiatives
The National Society of Leadership and Success (NSLS) | Developing leadership, communication, and career skills through training and community action