

# NEHEMIAH 'NEMO' CIONELO

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## PROFESSIONAL SUMMARY

Full-Stack Developer with Computer Science degree and production experience building scalable web applications. Shipped production system with JavaScript frontend/backend serving 240+ operational hours with sub-0.5s load times. Proficient in RESTful API design, database architecture, session management, and performance optimization. Experienced in AI-assisted development workflows and modern development tools. Strong foundation in algorithms, data structures, and software engineering principles.

## TECHNICAL SKILLS

- Languages: JavaScript (Production), HTML/CSS, SQL, Python, Java, C, MATLAB, R
- Web Development: RESTful APIs, Session Management, Authentication, Caching, Responsive Design, Single-Page Applications
- Database & Data: SQL Database Design, Data Modeling, Query Optimization, Data Pagination, Performance Tuning
- Tools & Workflows: Git, Version Control, AI-Assisted Development, Agile, Technical Documentation, Code Review
- System Design: Architecture Design, API Design, Performance Optimization, Scalability, Security Best Practices
- Additional: Adobe Creative Suite, Google Apps Script, Microsoft Office Suite, Cross-Platform Development

## PROFESSIONAL EXPERIENCE

### Full-Stack Developer (Freelance)

*Tutoring Services Company | Remote | Aug 2024 – Dec 2024*

- Architected and developed full-stack web application from requirements gathering through deployment, serving 240+ operational hours with production-grade reliability
- Built RESTful API backend using JavaScript/Google Apps Script with endpoints for authentication, data retrieval, and real-time updates; implemented role-based access control and session management
- Designed responsive frontend UI with vanilla JavaScript, HTML/CSS featuring modal systems, data tables, lazy loading, and real-time data synchronization without page refreshes
- Implemented advanced caching strategies (90KB size optimization) and pagination to achieve sub-0.5 second load times and optimal performance under load
- Integrated multiple data sources with complex relational queries and data transformations, ensuring data consistency and accuracy
- Developed AI-assisted development workflow using structured prompt engineering and custom automation to accelerate delivery while maintaining code quality
- Maintained comprehensive technical documentation including API specifications, version control logs, and architectural decision records
- Technologies: JavaScript, HTML/CSS, RESTful APIs, SQL, Google Apps Script, Git, CI/CD, AI-Assisted Development

### Computer Science Projects

*University of New Mexico | Albuquerque, NM | 2019 – 2022*

- Forensics Database System: Led team development of full-stack application for UNM Office of Medical Investigator - designed SQL database schema, implemented web application frontend, and built from technical specifications
- Client-Server Network: Programmed and implemented networked application with custom protocol, demonstrating understanding of socket programming and distributed systems
- BASIC Interpreter: Built functional programming language interpreter from scratch using Scheme/Haskell, demonstrating deep understanding of language design and compilers
- Large Software Systems: Designed and developed multiple large-scale software projects following software engineering best practices including requirements analysis, design patterns, testing, and documentation

### **Graduate Intern – Recreation and Sport Management**

*Coastal Carolina University | Conway, SC | Jan 2025 – May 2025*

- Managed data workflows and content calendar systems for Division I athletics program using technical automation
- Collaborated with cross-functional teams using project management tools and technical communication

### **Student Social Media Associate**

*University of New Mexico, Communications and Marketing | Albuquerque, NM | Jul 2021 – Jul 2023*

- Analyzed social media platform algorithms and engagement metrics to optimize content delivery and maximize reach
- Managed content management systems and workflow automation tools (Sprout Social, Notion) to streamline operations

### **Computer Science Peer Tutor**

*University of New Mexico | Albuquerque, NM | Sep 2021 – May 2022*

- Taught computer science concepts including programming, data structures, algorithms, and software design to college students
- Developed technical communication skills by explaining complex concepts to diverse learning styles

## **EDUCATION**

### **Bachelor of Science – Computer Science | GPA: 3.62 | cum laude**

*University of New Mexico | Albuquerque, NM | Aug 2019 – Dec 2022*

- Honors: UNM Scholars, Mountain West Scholar-Athlete, Academic All-Conference, 2022 Inspiring Graduate
- Relevant Coursework: Software Engineering, Computer Networking, Operating Systems, Data Structures & Algorithms, Design of Large Programs, Database Systems
- Technical Projects: Forensics Database (SQL + Web App), Client-Server Network, BASIC Interpreter, Multiple Large-Scale Software Systems

### **Master of Science – Recreation and Sport Management**

*Coastal Carolina University | Conway, SC | Aug 2023 – May 2025*

- Relevant Coursework: Project Management, Data Analytics, Organizational Leadership

## **ADDITIONAL EXPERIENCE**

### **Mathematics Tutor**

*Angwin Academy | Remote | Jun 2024 – Present*

- Tutor SAT/ACT prep, math, science, and history, developing problem-solving approaches and analytical thinking skills

### **Division I Student-Athlete – Track & Cross Country**

*UNM & Coastal Carolina University | Various | 2018 – 2025*

- Balanced rigorous academic curriculum (3.62 GPA in Computer Science), year-round athletic training, and professional work commitments
- Developed elite-level time management, goal-setting, and discipline applicable to fast-paced development environments