

MOUBARAK CLEMENCEAU ALI-KPARAH

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Education

Rust College

Bachelor of Science in Computer Science — GPA: 4.0

Expected Dec 2028

Holly Springs, MS

- Relevant Coursework: Pre-Calculus, Intro to Python, Calculus I

Experience

Rhodes College

Biology Research Intern

May 2025 – July 2025

Memphis, TN

- Managed 20+ complex scientific protocols, strictly adhering to documentation standards that mirror software version control and debugging methodologies.
- Automated data entry workflows where possible, reducing manual error rates by 15% through systematic process optimization.

Technical Projects

Moubely (Intelligent Desktop Assistant) | *Electron, React, TypeScript, AI APIs*

Dec 2025

- Engineered a stealth Electron assistant with advanced window management, implementing a custom Ghost Window fix to remain invisible to screen recording software.
- Architected an 18-model waterfall routing system with an automated history sanitization slicer to prevent API rejections, ensuring zero downtime across models like Gemini 3.0 and Claude 3.7.
- Developed a ticketed hybrid STT engine to resolve audio race conditions, reducing transcription latency by 40% through RAM-based smart profile caching and live terminal telemetry.

Movie Search App | *React, JavaScript, Tailwind CSS, AppWrite*

Nov 2025

- Built a reactive app using Appwrite for auth and real-time database management, scaling to 500+ active user searches via optimized REST API integration.
- Engineered a smart routing system for native Android intents or web fallback, improving mobile load times by 30% and optimizing the overall user experience.

Personal Portfolio Website | *HTML, CSS, JavaScript*

Sep 2025

- Developed a high-performance portfolio site using modern CSS Grid and Flexbox, achieving a 100/100 Lighthouse performance score.
- Automated deployment pipelines via GitHub Actions with custom domain configuration and SEO optimization.

Leadership

Rust College | *Student-Athlete*

Jan 2025 – Present

- Maintain a 4.0 GPA while dedicating 20+ hours weekly to intercollegiate tennis; mentored 10+ freshmen on balancing academic rigor with high-performance athletic travel commitments.

Technical Skills

Languages: TypeScript, JavaScript, Python, HTML/CSS

Frontend: React, Tailwind CSS, Vite, React Query, Radix UI

Backend System: Electron (IPC, Native Modules), Node.js, REST APIs

AI ML: Gemini API (1.5 2.0 Flash), DeepSeek R1, Perplexity, Groq, Whisper

Tools: Git/GitHub, Linux (Bash), VS Code, CyberChef, SSH

Affiliations Honors

ColorStack Fellow · 2026 EICOP Finalist · CodePath CyberSecurity · French Proficiency – Native