

MOUBARAK CLEMENCEAU ALI-KPARAH

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Education

Rust College

Expected Dec 2028

Bachelor of Science in Computer Science — **GPA: 4.0**

Holly Springs, MS

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

Experience

Rhodes College

May 2025 – July 2025

Biology Research Intern

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 · Presidential Scholar · CodePath CyberSecurity · French Proficiency – Native