# Moubarak Clemenceau Ali-Kparah

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## EDUCATION

**Rust College** - *Expected December 2028*                                         Holly Springs, MS
Bachelor of Science in Computer Science: 4.0 GPA          **Relevant Coursework**: Pre-Calculus, Intro to Python, Calculus I

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, HTML/CSS
**Frontend:** React, Tailwind CSS, Vite, React Query, Radix UI, HTML/CSS
**Backend & System**: Electron (IPC, Native Modules), Node.js, REST APIs
**AI & ML:** Gemini API (1.5 & 2.0 Flash), DeepSeek R1, Perplexity, Groq, Whisper (Local & Cloud), Speech-to-Text
**Tools**: Git/GitHub, Linux (Bash), VS Code, CyberChef, SSH

## TECHNICAL  PROJECTS

**Personal Portfolio Website** — HTML, CSS, JavaScript                              *September 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.

**Movie Search App** — React, JavaScript, Tailwind CSS, AppWrite                    *November 2025*
- Built a reactive web application leveraging Appwrite for secure authentication and real-time database management to track and visualize trending content from external REST APIs.
- Engineered a smart traffic routing system that detects user device types to launch native Android intents or fallback to web streaming, optimizing the mobile user experience.
- Designed a fully responsive interface using Tailwind CSS, creating a custom modal architecture that displays rich movie details and preserves user context across mobile and desktop devices.

**Moubely(Desktop Assistant)** — *Electron, React, TypeScript,* Gemini/DeepSeek/Perplexity APIs     *December 2025*
- **Core Architecture:** Engineered a stealth desktop overlay using Electron, implementing advanced window management (transparency, click-through forwarding, and always-on-top states) to provide non-intrusive AI assistance.
- **AI Integration:** Architected a **7-layer "Waterfall" routing system** that automatically cascades from Gemini to DeepSeek/Groq upon failure, guaranteeing zero downtime. Implemented **live terminal telemetry** to visualize IPC data flow and real-time model decision logic.
- **Real-Time Audio Engine:** Developed a hybrid speech-to-text system using a local Whisper server with a custom restart loop to process audio in continuous chunks, effectively bypassing API rate limits (429) and preventing connection timeouts during long meetings.
- **System-Level Features:** Implemented global keyboard shortcuts (e.g., Ctrl+H for screen analysis) and native OS integration using nativeImage and Tray APIs for seamless background operation.

## EXPERIENCE

**Rhodes College**                                                                  *Memphis, TN*
*Biology Research Intern*                                                    *May 2025 - July 2025*
- 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.

## LEADERSHIP

**Rust College**                                                            *January 2025 - Present*
*Student-Athlete*
- Competed in intercollegiate tennis matches while maintaining a 4.0 GPA, dedicating 20+ hours weekly to training and travel.
- Mentored incoming freshmen on time management strategies and balancing academic rigor with athletic commitments.

## AFFILIATIONS & HONORS

ColorStack Fellow · Presidential Scholar · **CodePath CyberSecurity** · French Proficiency – Native