

# SHAH ARIFUR RAHMAN RHYME

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## Education

**The University of Texas at Arlington; GPA: 3.88**

**Arlington, TX**

*Bachelor of Science in Computer Science*

*August 2021 - May 2025*

## Technical Skills

**Languages:** JavaScript, TypeScript, C/C++, YAML, Swift, SQL, Bash, HTML/CSS, Kotlin, C#, .NET, VBA, Ruby, PHP

**Web & App Development:** React, React Native, iOS, Angular JS, REST APIs, Node.js, Express, Springboot, Streamlit

**Developer Tools:** Docker, Postman, Azure DevOps, Jira, Agile, Linux/UNIX, Git/GitHub, Figma, Scrum, CI/CD, MVC

**Databases & Data Processing:** MySQL, MongoDB, Oracle, Firebase, NoSQL, BeautifulSoup4, Flask, PostgreSQL

**Cloud & Automation Tools:** AWS EC2/Lambda, R, Apache, GCP, Public Cloud, Terraform, Selenium, JMeter, TestNG

## Experience

### Software Engineer Intern

**June 2024– July 2024**

*AI-Interviewer*

*Arlington, TX*

- Developed cutting-edge AI interview platform using Next.js, Tailwind CSS, integrating Hume AI for emotional analysis.
- Integrated OpenAI for question generation, HeyGen for video synthesis, and Deepgram for speech recognition.
- Enhanced platform for 500+ users, boosting interview success rates by 30% with zero downtime and secure scalability.
- Contributed to 6+ high-impact cross-functional features through Agile Scrum & effective verbal communication.
- Designed responsive front-end & personalized feedback, improving user engagement by 25% & preparation time by 40%.
- Engineered system integration for Firebase authentication and 100+ concurrent users, optimizing responsiveness by 15%

### Undergraduate Research Assistant

**August 2024 – Present**

*University of Texas at Arlington*

*Arlington, TX*

- Developed responsive web platform with scalable architecture, allowing OpenAI to select from 12,000+ custom adders.
- Optimized fixed-point multiplication and reduced computational steps by 19% enhancing the system's efficiency.
- Collaborated API development & applied problem-solving skills to reduce latency by 17% for real-time computations.
- Enhanced code efficiency with Agile Practice by refactoring core algorithms and implementing asynchronous functions, improving execution time by 20%.

### Tutor | Math and Computer Science

**January 2024 – Present**

*University of Texas at Arlington*

*Arlington, TX*

- Demonstrated communication skills, attention to detail, and organizational skills to 1,500 students in Mathematics
- assisted with programming languages classes including data structures and algorithms with 100% satisfaction rate.
- Prioritization to 450+ assignments and problem sets, enabling A/B grades in upper-level programming and math courses

### Software Engineer Fellow

**August 2024 – September 2024**

*Headstarter AI*

*Long Island City, NY*

- Expertly designed and implemented innovative scalable front-end architectures using React/Next.js and MUI, ensuring optimal performance and maintainability in full-stack applications.
- Optimized codebase to manage dependencies across multiple frameworks for backend, ensuring robust performance
- Focused on a capstone project in a test-driven development targeting 1,000 user sign-ups or \$1,000 in revenue, using data-driven strategies, Peer Reviews and iterative design to meet objectives and demonstrate commercial viability.

## Projects

### PHMS | *Java, XML, Firebase, Android Studio*

**January 2023 - May 2023**

- Architected and optimized multi-module Android application with seamless management of Feature Development
- Integrated Firebase Realtime Database with custom data synchronization logic, achieving sub-200ms response times.
- Maintained 99.9% Uptime for continuous health record management and efficient data retrieval and real-time updates.
- Enhanced Back End Programming by implementing a 3:1 compression ratio for stored data, reducing Firebase storage costs by 25% while ensuring high-speed data access, integrity and web security.

### "StockAnalyzer" - Web Application| *VSCode, Python, Streamlit, yfinance, Docker*

**January 2024 - April 2024**

- Engineered a fintech full-stack web application with a community forum and real-time stock analysis module.
- Leveraged yfinance and polygon.io APIs to boost user engagement by 30% and enhance data-driven decision-making.
- Handled 500+ interactions with secure user authentication, post management, session handling, and API integration
- Applied advanced real-time stock analysis, improving data processing speed by 40%, API response time by 1.5 seconds.
- Ensured robust backend performance integrating secure API access, error handling, session management, and Dockerized frontend/backend on GCP's Cloud Run with Docker; optimized serverless scaling, reducing latency by 60%.

### Image Editor AI| *Next.js, TypeScript, MongoDB, Clerk, Cloudinary, Stripe, Shadcn, TailwindCSS*

**Summer 2023**

- Engineered SaaS AI-driven image editor Web Architecture using JavaScript frameworks React.js, Next.js.
- Integrated REST APIs to process 10,000 images with real-time transformations, reducing avg. image load time by 40%.
- Automated design patterns using API routes for asynchronous operations to handle 1.5x more concurrent requests
- Streamlined payment processing with Stripe API, & Query Analysis, reducing transaction times by 20% while enhancing end-to-end security, product quality, product lifecycle and ensuring seamless unit and integration testing.