

Madhavam Pratap Shahi

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EDUCATION

Texas Christian University

Bachelor of Science (B.S.) in Computer Science (Full Scholarship)

Fort Worth, Texas

Graduation Date: May 2026

SKILLS & COURSEWORK

Coursework: Data Structures and Algorithms, Advanced Java, Unix/Linux Systems, Operating Systems, Database Systems, and more.

Skills: Java, C/C++, Python, Dart, HTML, CSS, Javascript, SQL, Spring Boot, Vue.js, Flutter, jQuery, JSON, Firebase, and more.

SUMMARY

- Former Software Engineer Intern at a **Fortune 150 company** (Full-stack engineer)
- Founded a tech startup, **raising \$10,300 in funding, with active users**. Passionate about problem-solving.
- Experience with microservices architecture, MVC, GCP, REST APIs, Unit/Integration Testing, Design Patterns and Cloud Computing. Pursuing AWS Certified Developer Associate Certification

WORK EXPERIENCE

HF Custom Solutions

Software Engineer Intern, Part-time

Fort Worth, Texas

Aug 2024 - Present

- As a full-stack developer, created a web portal using **Vue.js, Firebase, and Node.js**, integrated CRM APIs for order processing.
- Cut reconciliation time by 40% by developing a Python script to scrape and convert CRM sales data into Excel, **boosting accounting efficiency**.
- Boosting operational efficiency by 30% with a JavaScript Chrome extension automating order processing and integration with CRM.

Coldwell Banker Richard Ellis (CBRE Group Inc.)

Software Engineer Intern, Full-time

Richardson, Texas

Jun 2024 - Aug 2024

- Enhanced communication with a Spring Boot, and Vue.js based **Messaging System**, offering full CRUD and scheduling features.
- Developed **15 new API endpoints** across 3 microservices, optimized SQL queries using Spring Data JPA, and streamlined deployment with Azure DevOps CI/CD pipelines.
- Utilized **AWS S4 in OpenSearch** queries to secure data and enhanced authentication by **decoding Azure JWT**.
- Developed new UI components in Vue.js micro-applications, utilizing SplitIO feature flags for A/B testing.
- As a full-stack developer, actively contributed to Agile processes through **daily SCRUM meetings** and client demos.

Youth Empowerment Foundation

Mobile Application Developer Intern, Part-time

New Delhi, India

Mar 2021 - Aug 2021

- Reduced processing time by 35% by creating an admin panel and securing the database with robust security rules.
- Improved user satisfaction by over 20% by brainstorming and implementing new ideas with my manager into the Android app.
- Cut Firebase costs by 50%** and boosted performance by restructuring the Firestore model to reduce read and write operations.

PROJECTS

Quipler (Full-stack Social Networking App)

<https://www.quipler.app/>

Fort Worth, Texas

Mar 2023 - Present

- Raised **\$10,300 in funding** and 100+ active users by developing a full-stack social networking app (PWA and iOS) using Flutter, Dart, Node.js, and Firebase, connecting college students with peers.
- Designed and launched a robust **iOS and web app**, featuring text, image, and document sharing, upvoting/downvoting, commenting, threaded replies, and comprehensive social networking capabilities.

AI Character Chatbot

https://github.com/madhavamshahi/AI_character_chat

Fort Worth, Texas

Aug 2024 - Aug 2024

- Talk to anyone in the world, real or fictional with the AI chatbot built using Vue.js, integrated **OpenAI API** for interactive character-based conversations.
- Implemented persona-specific **GPT-3.5 responses**, managing conversation states and API integration for a seamless user experience.

Multithreaded Chat Application in C++

https://github.com/madhavamshahi/chat_server

Fort Worth, Texas

Jul 2024 - Jul 2024

- Developed a multithreaded C++ chat application with a **load balancer**. Implemented a round-robin algorithm for scalable and balanced client distribution.
- Ensured real-time, low-latency messaging with multithreading & utilized socket programming and mutexes for thread-safe operations.