

NICOLE FAVELA

Phone: (915) 497-3173 | Email: favela.nicoleerin@gmail.com | Portfolio: <https://nicole-favela.github.io/myportfolio/#/>

EDUCATION

The University of Texas at El Paso (UTEP)

Expected Graduation Date: May 2026

Master of Science in Computer Science (GPA: 4.0/4.0)

The University of Texas at El Paso (UTEP)

Graduation Date: December 2022

Bachelor of Science in Computer Science with Minor in Mathematics (GPA: 3.82/4.0)

RELEVANT COURSES:

- Data Mining, Data Structures and Algorithms, Numerical Analysis, Machine Learning, Advanced Algorithms, Modern Artificial Intelligence, Automated Techniques for Improved Software Quality.

WORK EXPERIENCE

Lead Software Engineer at Series - The first AI social network

April 2024-April 2025

- Leveraged Google Cloud Platform (GCP) services such as Storage Buckets, Cloud Functions, and the CLI to streamline cloud-based operations and automate workflows.
- Led PI (Program Increment) planning meetings to align project goals, define team deliverables, and enhance collaboration, resulting in 30% improved project timeline adherence.
- Enhanced Vera AI chatbot's user experience and guidance capabilities by optimizing natural language understanding (NLU) increasing user satisfaction
- Mentored and onboarded new interns, fostering their growth through hands-on guidance and structured support, reducing onboarding time by 40%.

Interim CTO at Series - The first AI social network

Sept. - Oct. 2024

- Led the technical vision and architecture for Series core product, guiding interns across full stack technologies including Node.js, Firebase and other GCP products.
- Oversaw cross-functional engineering efforts and implemented Agile practices and organization to accelerate product development and team efficiency and communication.
- Integrated intelligent features and optimized backend infrastructure that included data migration and database design.

Undergraduate TA at UTEP

Sept. - Dec. 2022

- Delivered constructive grading on homeworks, labs, and exercises to cultivate students' growth and understanding.
- Facilitated demos for omok projects in PHP, Dart, and Haskell for over 40 students.
- Provided personalized guidance and support during weekly office hours both in person and online via Teams, ensuring students' comprehension of complex theory and programming concepts.

PROJECTS:

Movie Recommendation Engine

Jan 2024

- Engineered a recommendation engine web app using React and Flask, facilitating user searches across a 10,000-movie database from TMDb and enabling the saving of favorite selections via PostgreSQL.
- Utilized recommendation algorithm using TF-IDF vectors and cosine similarity calculations with data streamed from AWS S3 which is cached to reduce response time by 40 seconds to provide personalized, context-driven movie suggestions.
- Developed secure login and registration using JWT tokens and Flask authentication, supporting multi-user access and enhancing application security.

EXTRACURRICULAR ACTIVITIES

Clubs: RTC (Rewriting the Code), Women Who Do Data (W2D2), and SWE (Society of Women Engineers) member, WDC (Web Development Club) member, FOSS (Free and Open-Source Software) club member

Hackathons & Events: DEVCOM Cyber-Security hackathon, DEVCOM Dragon's Den Capture the Flag (2024)

SKILLS

- Frontend:** React.js, Next.js, Bootstrap, MUI
- Backend:** Flask, Java, FastAPI, Node.js, TypeScript, Next.js, Express.js, MongoDB, Postgres, Google Cloud Firestore, and MySQL
- Tools and Technologies:** Figma, Google Cloud CLI, Swagger
- Cloud:** AWS s3, Google Cloud functions