

ANA GARCIA

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EDUCATION

University of Texas Rio Grande Valley <i>Bachelor of Science in Computer Science - GPA: 3.96</i>	December 2024
South Texas College <i>Associate of Arts in Interdisciplinary Studies</i>	December 2021

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Dart, Java, C++, C#, HTML/CSS, SQL
Frameworks/Technologies: React, React Native, Node.js, Express.js, Flutter, Firebase
Developer Tools: Git, GitHub, Agile Methodology, TDD, Visual Studio

PROJECTS

Comments! | *JavaScript, ReactJS, NodeJS, ExpressJS, Firebase, MongoDB* July 2024
Movie companion web app with timestamp-specific commenting

- Developed a **full-stack web application** that allows users to leave comments tied to specific movie timestamps, enabling shared viewing experiences.
- Built a responsive **ReactJS frontend** with smooth routing, intuitive UI, and seamless integration with the backend API.
- Implemented a scalable **Node.js/Express.js backend** with RESTful routes for comment management and movie lookups.
- Integrated the **TMDB API** to fetch dynamic movie data and metadata for user browsing and search.
- Utilized **Firebase Authentication** for secure user login and access control.
- Stored user comments and movie data in **MongoDB**, enabling efficient querying and real-time comment display.
- Deployed the app on **Vercel** using serverless backend functions and a global CDN for optimized performance.

Links: Demo Link — GitHub Repository

Folio | *Flutter, Firebase, Dart* September 2024
Mobile app connecting service-based professionals with local clients

- Developed robust **authentication and onboarding** processes using Firebase Auth, Firestore, and Storage, ensuring secure user registration and seamless profile creation.
- Implemented **in-app messaging** using Firebase Firestore and Firebase Messaging for real-time communication between professionals and clients.
- Designed and executed **location-based queries** to retrieve and display nearby portfolios based on user location.
- Conducted extensive testing with over **400 unit and widget tests** and approximately **40 integration tests** to ensure the app functioned reliably across all devices.
- Collaborated with a team and a project advisor to achieve the app's goals, delivering core functionality and meeting project expectations.

Links: GitHub Repository

Express Backend Starter | *TypeScript, Node.js, Express.js, MongoDB, JWT, AWS SES* December 2024
Production-ready API boilerplate with authentication and email services

- Implemented robust **JWT-based authentication system** with access/refresh token pattern, including user registration, login, logout, and token refresh endpoints.
- Built complete **email service integration** using AWS SES with pre-configured EJS templates for email verification, password reset, and account notifications.
- Designed **account management features** including email verification workflows, password change functionality, and secure token-based password reset flows.
- Integrated essential **security middleware** including rate limiting, input validation, CORS configuration, and comprehensive error handling.
- Architected clean **service layer pattern** with TypeScript support, MongoDB integration, Winston logging, and environment-based configuration management.

Links: GitHub Repository