Adrian Salinas

Software Engineer

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Experience

Research Assistant — *Edinburg, TX*
University of Texas Rio Grande Valley — May 2023 – Jan 2025

- Collaborated with a small team to write and design algorithms/proofs for five published papers. Led the team for one of the papers. Earned an REU grant and a *Best Student Paper Award*.
- Presented our technical work to people outside the field of research at six university events. Mentored three undergraduate students who had no prior experience in research.

Technologies

Languages: JavaScript, TypeScript, HTML/CSS, Python, SQL, Ruby

Frameworks: React, Tailwind, Django, LaTeX, Ruby on Rails, Microsoft Office Suite

Tools: Git/GitHub, Node.js, PostgreSQL, SQLite, Linux, Agile/Scrum Methodology

Projects

SelectMonarchs (Full-Stack Web App) — SelectMonarchs

- Developed a responsive, full-stack web app with unit/integration testing where users make (fake) bets on 21 extinct sports. The winnings are calculated to be fair despite varying odds. DraftKings inspired front end.
- *Tools:* Django, Javascript, React, Vite, Tailwind, PostgreSQL

Canto Avis (Audio Player) — Canto-Avis

- Created a lightweight audio player for bird sounds. Users can make custom API requests to the Xeno-Canto database for more specific sounds. 100 backup recordings are saved in case the API requests fail.
- *Tools:* JavaScript, HTML/CSS, jQuery

YouTok (Full-Stack Web App) — YouTok

- Built a full-stack web app where users can view, save, and write notes on unusual YouTube videos that have little to no views. TikTok-inspired front end.
- *Tools:* TypeScript, React, Next.js, Tailwind

Indie Web Crawler — Indie-Web-Crawler

- Built a web crawler designed to traverse the connections between the Indie Web. Users have the option to receive additional data, such as the number of times a URL was linked to on a domain and the pages the crawler didn't visit.
- *Tools:* JavaScript, Node.js

24-hr Research Hackathons — utrgv.hackresearch.com

- Collaborated with, at most, three students to solve theoretical problems under a 24 hour time constraint.
- Designed deterministic Chemical Reaction Network system that can behave randomly. (2023)
- Bounded the number of tiles needed to make any rectangular 1/0 pattern in Pattern Assembly Tile Systems. (2023)
- Volunteered to write and present our lab's research questions at the event, including an original problem I created based on Ramsey Theory. (2024)

Education

University of Texas Rio Grande Valley — Fall 2021 – Fall 2024
Bachelor's of Science in Computer Science — **GPA:** 3.96