Jorgeluis Gallegos

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Education

The University of Texas at Arlington — Arlington, TX
Bachelor of Science in Computer Science — *Expected May 2028*

- **Relevant Coursework**: Data Structures & Algorithms, Database Systems, Discrete Mathematics, Object-Oriented Programming, Computer Organization

Projects

Workshop Dashboard | *Python, Node.js, Express, PostgreSQL, React, Socket.io* | GitHub — May 2026 – Present

- Unified a Node.js PC hardware agent and a Python agent reading Bambu 3D printer telemetry over MQTT into a single time-series ingestion endpoint, giving every metric one reusable storage and broadcast pipeline
- Cached weather and crypto responses server-side, so all open dashboards share one upstream call
- Built a WebSocket pipeline with Socket.io broadcasting readings from an Express/PostgreSQL backend, streaming live PC and 3D printer telemetry without client-side polling
- Scheduled a daily cleanup job purging readings older than 30 days, capping storage at a rolling 30-day window (about 400 MB at full ingest rate)

FlightPath | *Python, NumPy, SciPy, pytest* | GitHub — July 2026 – Present

- Engineered a 3DOF rocket ascent simulator from scratch in Python, modeling thrust, exponential-atmosphere drag, and propellant depletion via the rocket equation, with a pytest suite covering every module
- Built a 1-axis pitch PID controller on a custom RK4 integrator, tracking a ramped pitch command to within 1° throughout the maneuver and under 0.05° of steady-state error
- Cut pitch overshoot from 17% to under 10% and settling time from 13.9 s to 2.5 s by deriving PID gains from natural-frequency/damping-ratio targets instead of trial-and-error tuning

MavVision | *JavaScript, Next.js, React* — January 2026 – May 2026

- Owned the onboarding and job-match front-end for a resume-driven job recommendation app on a 5-person ACM club team, building Next.js components that consume a Spring Boot REST API
- Designed and implemented a 3-step onboarding flow (resume upload, job preference selection, personalized match results)

Twenty One Tails | *JavaScript, Next.js, React* | twentyonetails.com — April 2026

- Designed and deployed a responsive React/Next.js front-end that established the first online presence for a local pet grooming business, with a one-tap text-to-book flow and a rotating client testimonials carousel
- Built the layout from reusable components with mobile-first CSS, keeping the experience consistent across phone, tablet, and desktop

Work History

Certified Trainer — January 2024 – October 2025
Chick-fil-A — *Cleburne, TX*

- Trained 15+ new team members across all kitchen stations, ensuring proficiency in operating procedures and company standards
- Took on Team Lead responsibilities during shifts, preparing daily lineups and coordinating staffing to maintain smooth, high-volume operations

Technical Skills

Languages: Python, JavaScript, TypeScript, SQL, C/C++, Go, HTML/CSS
Frameworks & Libraries: React, Next.js, Vue, Node.js, Express, Socket.io
Data & ML: pandas, NumPy, SciPy, scikit-learn, Matplotlib
Databases & Tools: PostgreSQL, Git, Linux, MQTT, REST APIs, WebSockets, pytest, Cursor, Claude Code