

Jose Barrera

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Education

Bachelor of Science in Computer Science

December 2024

University of Texas at Tyler, TX | GPA: 3.82

Skills

Languages: Java, Python, JavaScript, SQL

Software: Object-Oriented Design, REST APIs, Microservices

DevOps & Infra: Linux, Docker, Jenkins, GitHub Actions, CI/CD

Systems: Proxmox VE, Networking (SSH, DNS, firewalls, bridges)

Tools & Practices: AWS, Git/GitHub, Postman, Agile (Scrum), Test Automation

Projects & Experience

Fortress | <https://github.com/JoseBarr777/fortress.git> | Present

- Engineered a secure REST API with JWT authentication, role-based authorization, and runtime protection layers (bot detection, rate limiting, shield protection) to defend against automated attacks and improve reliability.
- Designed modular, maintainable object-oriented service components with structured Winston logging, typed error classes, and clear separation of concerns to enhance debugging and observability.
- Automated CI/CD workflows for testing, linting, Docker builds, and image publishing using GitHub Actions, reducing manual deployment effort and increasing system consistency.

Scentopedia | <https://github.com/JoseBarr777/Scentopedia.git> | Fall 2024

- Collaborated in a 5-person Agile team to build a full-stack fragrance catalog with advanced search, filtering, pagination, and user experience components using React 18 and TypeScript.
- Implemented Firebase Firestore data operations, authentication flows, and custom data-fetching hooks while developing reusable UI components across the shared codebase.
- Coordinated development using Jira, structured Git workflows (31+ merged PRs), and peer reviews, strengthening communication, documentation, and cross-team collaboration.

Personal Homelab | Present

- Built and maintained a Proxmox virtualization environment hosting multiple Ubuntu Server VMs running containerized workloads, automated services, and development environments.
- Configured Linux networking layers including bridges, firewalls, SSH, DNS, and static IP assignments to support secure, isolated systems across the homelab.
- Implemented secure remote access using Cloudflare Tunnels, enabling authenticated, encrypted access to internal services via official domain hostnames.

Certifications

AWS Certified Cloud Practitioner | AWS

November 2025

Professional Scrum Master I (PSM I) | Scrum.org

June 2025