

Jorge Villarreal Staff Software Engineer

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PROFILE SUMMARY

- **Staff Software Engineer** with **12 years** in **retail e-commerce** at **H-E-B** and **Bazaarvoice**, setting the architecture behind **Curbside and Home Delivery** orders across Texas, from slot booking to store picking and handoff.
- Sets the default stack across H-E-B e-commerce: **Java** and Kotlin on **Spring Boot**, PostgreSQL and **Redis**, **GraphQL** and **Kafka**, **Google Cloud** with GKE, JUnit and Testcontainers, and Grafana with OpenTelemetry.
- Applies **event-driven design**, **domain-driven design** and **strangler-fig migrations** off legacy systems, sets **SLOs** with each owning team, and asks for a **design doc** and a rollback plan before any checkout change.
- Plans the quarterly roadmap with **e-commerce product leaders**, **store operations** and **supply chain**, reviews designs across **9 engineering teams**, and joins the incident call for any **checkout or fulfillment Sev-1**.
- Mentors **6 senior engineers** without managing anyone, sits on the **Staff promotion panel** for H-E-B Digital, and writes the **architecture decision records** new e-commerce engineers read in their first week.

TECHNICAL SKILLS

Programming Languages:	Java, Kotlin, SQL, TypeScript, Python
Frameworks:	Spring Boot, Spring for GraphQL, Resilience4j, Hibernate, React
Databases & Caching:	PostgreSQL, MySQL, Redis, Elasticsearch, MongoDB
APIs & Messaging:	GraphQL Federation, REST, gRPC, Apache Kafka, Google Cloud Pub/Sub
Cloud & DevOps:	Google Cloud (GKE, Cloud SQL), AWS, Kubernetes, Docker, Terraform, GitLab CI
Testing Frameworks:	JUnit 5, Mockito, AssertJ, Testcontainers, Pact, k6
Tools & Observability:	Git, Linux, Grafana, Prometheus, OpenTelemetry, PagerDuty, Jira

EDUCATION

Texas State University	B.S. in Computer Science	San Marcos, TX · Aug 2010 to May 2014
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WORK EXPERIENCE

H-E-B	Staff Software Engineer	Austin, TX · Feb 2020 to Present
• Designed the event-driven fulfillment platform for Curbside and Home Delivery on Apache Kafka, splitting slot booking, picking and handoff into separate services, raising daily online order capacity from 19,000 to 74,000. • Set the schema rules for a federated GraphQL gateway over the product, pricing and inventory services in Spring Boot, cutting the H-E-B app's calls per product page from 14 to 3. • Replaced nightly inventory files with a PostgreSQL read model updated from point-of-sale events and cached per store in Redis, cutting items shown in stock but missing at pick time by 31%. • Set SLOs and burn-rate alerts in Grafana for slot booking and checkout, ran k6 load tests before holiday and hurricane peaks, and held booking at 99.97% availability through the Hurricane Beryl rush. • Created the architecture review for the e-commerce teams and the RFC template they write in, and 63 designs have gone through it ahead of the first commit.		
Bazaarvoice	Senior Software Engineer	Austin, TX · Jun 2014 to Jan 2020
• Shipped UPC matching for review syndication in Java with the product team, so a brand's reviews appear on the same item at every retailer, growing syndicated reviews on retailer sites 2.3x. • Refactored the legacy moderation code into Spring services with clear interfaces and deleted dead rule paths, cutting setup for a new moderation rule from 11 days to 2. • Added JUnit and Pact contract tests between the Conversations API and the JavaScript display code as a required Jenkins check before merge, cutting release rollbacks from 13 a year to 2.		