

Brenton J. Gray

SOFTWARE ENGINEER | MARINE CORPS VETERAN

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SUMMARY

Software engineer with a fresh CS degree and two decades of Marine Corps experience where reliability, checklists, and clear handoffs mattered. I ship user-centric apps and services, write tests, and use CI. The habits I bring to an entry-level engineering team are simple and useful: break problems down, document what works, keep comms tight, stay calm when things fail, and iterate fast without ego.

EDUCATION

Bachelor of Science (Honors) – Computer Science

National University, San Diego, CA

Relevant classes: Data Structures and Algorithms; Object-Oriented Programming; Operating Systems; Computer Architecture; Computer Networks; Database Design; Software Engineering; Discrete Math; Web Application Development; Mobile Application Development

SKILLS

- **Languages:** JavaScript, TypeScript, Python, C++, Java, SQL, PHP/Hack, C# (learning)
- **Web & Services:** React, Node.js, Express.js, REST APIs, JSON Web Auth, rate limiting basics, background jobs (cron/queues)
- **Data:** MongoDB, MySQL, schema & index design, S3/MinIO object storage, integrity checks & idempotent operations
- **Platforms/Tools:** Docker, Git/GitHub, npm, Composer, Kubernetes (intro), CI basics, Android/Expo toolchain
- **Practices:** code reviews, unit & integration testing, observability basics (logs/health checks), iterative delivery, cross-team collaboration/communication

EXPERIENCE

Technical Operations & Program Manager

October 2020 – March 2026

United States Marine Corps – Multiple International Locations

- Coordinated release windows and hot-fix deployments across engineering, logistics, and operations for a fleet of 1,000+ systems; improved turnaround by standardizing intake, status notes, and handoffs.
- Triaged production issues, captured minimal repro steps, drove fixes with system owners; documented runbooks that stabilized rollouts. Translated constraints into action plans under pressure, on-call triage, and incident reviews.
- Earned multiple awards for process improvement, leadership, resourcefulness, and execution under pressure.

Lead Software Engineer

September 2020 – Present

Self-Employed – Projects

- Shipped multi-tier web apps/services in React, Node/Express, and PHP; chose sync REST vs async jobs pragmatically; used token auth, idempotency, and basic rate limiting.
- Built an asset release portal (MongoDB/MySQL + MinIO/S3); integrity scans plus a small C++ hashing utility cut stray/duplicate assets ~30% and re-uploads ~20%.
- Added ~50 unit/integration tests, health endpoints, and Dockerized CI envs; reduced setup time ~45% (~45 → 25 min).
- Delivered an Android app (React Native + TypeScript) with offline data, exportable logs, and Google Maps/OSM; clearer repro and error logging shortened fix time ~25%.
- Automated daily checks in Python; trimmed manual verification ~65% (~20 → 7 min/run); applied schema/index tuning to cut API calls/view ~35% and improve p95 from ~420 ms to ~280 ms (~33%).
- Led a 5-person full-stack effort (Node/Express + MongoDB); authored runbooks/.env/API docs; PR SLAs improved review turnaround ~50% (~3 days → ~36 hrs).

CERTIFICATIONS & AFFILIATIONS

Lean Six Sigma (Yellow Belt) • IEEE Computer Society Member • Golden Key International Honor Society • National Society of Leadership and Success • Omega Nu Lambda Honor Society