

Benicio J. Padilla

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Education

University of California, Davis

Davis, CA

B.S. Computer Science • Minors: Mathematics, Technology Management, Spanish

Technical Skills

Languages: TypeScript, JavaScript, SQL (PostgreSQL), Python, C/C++, Java, HTML/CSS

Web & APIs: Next.js, React, Node.js, Express, REST API design, MVC / separation of concerns, Tailwind, Zod

Databases: PostgreSQL / Supabase — schema design, migrations, multi-table joins, stored functions, triggers, RLS

DevOps & Tooling: Git/GitHub (branching, PR review, merge conflicts), GitHub Actions CI/CD, Docker, Vercel, Fly.io, Sentry, PostHog

Practices: Agile sprints/standups, code review, debugging via logs, breakpoints & dev tools, technical docs

Experience

CodeLab Davis

Davis, CA

Infrastructure Lead (promoted May 2026) • Software Developer

Jan 2026 – Present

- Own build and release automation for a student software agency, routing every client project through one CI/CD path (GitHub Actions → Docker → Fly.io / Vercel) with managed secrets and one-command rollbacks, so other teams ship unblocked.
- Debug build and runtime failures for dev teams, tracing CI logs and error traces to the failing commit; extend existing infrastructure following each project's established patterns and PR-review workflow.

United Environmental Corp / United Hydrovac

San Leandro, CA

Business Development & Technology Intern

Mar 2026 – Present

- Replaced a 4-step paper workflow (collect, scan, log, send) at an industrial field-services group with one automated dispatch-to-invoice system, owned end to end from first conversation to production: now the record for **\$600K+** in billed work, averaging **\$200K+** a month, across **140+** jobs, used daily by **5+** operators.
- Co-developed a tanker standby service with the company owner, replacing a 3-hour offload round trip with a 20-minute on-site transfer to raise share of paid time spent digging from **43% to 65%** and cut job cost **22%**; now in production use with a major regional pipeline contractor.
- Run marketing and outreach (Constant Contact campaigns, social media) bringing in **5+** new clients a month.

Paragon General Engineering

Santa Clara, CA

Contract Software Developer & Technology Consultant

Jun 2026 – Present

- Sole technical resource for an engineering contractor: gather requirements from the owner, then build, deploy and maintain the website and internal apps with handoff documentation; the lead-to-quote pipeline carries **~10** quotes and **\$100K+** quoted weekly.

Projects

Operations App — United Hydrovac

Next.js 16, React, TypeScript, Supabase / PostgreSQL

Used daily by **5+** operators and the ops manager; tracks **\$600K+** billed (**\$200K+/month**), **140+** jobs, **1,000+** labor hours

- Designed the relational schema and **16** versioned SQL migrations (jobs, tickets, invoices, timecards, labor rates); wrote stored functions, triggers, and multi-table joins powering a KPI dashboard (revenue trend, period-over-period deltas, crew hours, margin after wages).
- Built **25+** REST API routes with server-side JWT verification and 3-role access control (worker / manager / client); integrated Claude OCR scan-to-form entry, Twilio SMS dispatch, Resend invoice email, jsPDF, and pg_cron jobs.

Lead-to-Quote Pipeline — Paragon

Next.js 16, Supabase, Zod, Sentry, Resend

Website quote form → quoting app → emailed PDF proposal; **~10** quotes/week, **\$100K+** quoted weekly

- Designed the intake contract between the two systems: a token-authenticated POST **/api/leads** REST endpoint with timing-safe auth, 5s timeout, and idempotent upsert on a customer-facing reference so retries are safe.
- Built the quote editor and PDF proposal generator; status changes are audit-logged by a PostgreSQL trigger and the final PDF is auto-emailed to the requester. Hardened the database, cutting Supabase advisor findings from **17 to 2**.

PageRank on a 1,300-Node Graph

Python, NumPy, SciPy — github.com/BenicioJPadilla/pagerank-graph

Extended a linear-algebra method to real data; **1,300** nodes, **2,267** edges, **30%** dangling

- Cross-validated three solvers to **5.7e-12** and cut memory **417×** by never materializing the dense matrix; derived and verified the true rank floor once dangling mass acts as a second teleporter, and **24-iteration** convergence against the **~142** damping predicts.