Belal Zahran

Full-Stack Software Engineer

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PROFESSIONAL EXPERIENCE

Meta **April 2025 - Current**

Contract Senior Software Engineer

- Sole developer of BugMaker Tool, a web app supporting 3,000+ employees and 100+ teams in filing over 120,000 bug reports to date
- Partner with QA leads to scope feature requests and build the bug analytics presented in meetings with directors
- Built a BugMaker Insights dashboard with metric tiles and traffic analytics, giving teams visibility into 2,200+ weekly bug reports
- Built a Claude-based plugin generating 350+ E2E tests in CI/CD, catching mainline bugs and saving manual QA 100+ hours per week
- Built and own an AI root-cause pipeline in production that classifies every failed Quest E2E test, replacing manual QA triage

VistraTec **March 2026 - Current**

Contract Lead Software Developer

- Lead software developer of VistraPM, a role-based construction administration platform replacing FDOT Excel and email workflows
- Now being tested on large capital construction projects worth several hundred million dollars
- Built modules for pay estimates, price adjustments, RFI and shop drawing reviews, plan revisions, materials, and punch lists
- Architected the full stack: Next.js, TypeScript, Node.js API (200+ routes), PostgreSQL (70+ tables), and Entra ID auth with RBAC
- Built to government standards: NIST 800-53, WCAG 2.2 AA / Section 508, full audit logging, and 8,000+ automated tests
- Deployed on Azure via Bicep infrastructure-as-code for commercial and Government (FedRAMP) clouds with GitHub Actions CI/CD
- Drove requirements directly with the client's CEO, turning raw FDOT spreadsheets, forms, and specs into shipped features

PACE - paceattend.com **Sept 2023 - Current**

Founder & Sole Developer

- Founded and solely own PACE, a multi-tenant student check-in SaaS adopted by dozens of Kumon centers across 9 US states
- In daily production since Jan 2024, now tracking 1,200+ students and 19,000+ check-ins across its active centers
- Rebuilt and launched it commercially in 2026 on React, TypeScript, Supabase (Postgres, Auth, Realtime), and Stripe
- Isolated tenant data with Postgres row-level security, verified by 186 automated tests; built an iPad kiosk web app
- Run the whole business solo: product, infrastructure, legal terms, pricing, support, and outreach to center owners

AONDevices **Nov 2024 - March 2025**

Software Engineering Intern

- Worked with Embedded RCUs to enable OTA firmware updates and seamless two-way connection with the client device
- Developed Python scripts to speed up common workflows, achieving a nearly 2x efficiency increase in standard test procedures

Karma Automotive **June 2023 - Sept 2023**

Powertrain Controls Software Intern

- Built a Python VIN flasher for Karma's electrification kits that automates legal VIN checks and cut flashing times by 30%
- Designed an OBD-II harness with a Raspberry Pi CAN-bus reader and python-can, Karma's first consumer-friendly flashing method

SKILLS

Languages & Databases: TypeScript, JavaScript, Python, C++, C, SQL, PostgreSQL, MySQL, MongoDB, SQLite, Supabase, Drizzle ORM
Frameworks & Libraries: React.js, Next.js, Node.js, Express, Flask, Radix UI, USWDS
Cloud & DevOps: Azure, Azure Government, AWS, Google Cloud, Docker, Bicep (IaC), GitHub Actions, CI/CD, Firebase
AI/ML: LLM integration, Azure OpenAI, Anthropic Claude API, MCP, AI agent orchestration, prompt engineering, RAG
Security & Tools: Microsoft Entra ID, RBAC, NIST 800-53, OAuth, SSH, Git, REST APIs, bash, Linux, macOS, WCAG 2.2 / Section 508
Machines/Hardware: STM32, Arduino, ESP32, ATmega32, Raspberry Pi, firmware, schematics, soldering

EDUCATION

University of California, Irvine / *B.S. in **Computer Science*** / *Dean's Honor List* *September 2020 - June 2024*