

ABDELRAHMANE BENSAPHLA

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EDUCATION

Rutgers University - New Brunswick - Bachelor of Science in Computer Science

Sep 2021 – May 2025

WORK EXPERIENCE

New Jersey Turnpike Authority

May 2025 - Present

Application Analyst / Full-Stack Engineer, Workflow & Data Visualization

Woodbridge, NJ

- Engineered a full-stack network visualization platform using Next.js, React, TypeScript, PostgreSQL, and Drizzle ORM, mapping 500+ enterprise devices and IP addresses and reducing network troubleshooting time by 40% across 3 departments.
- Designed and developed RESTful APIs and server-side endpoints with Node.js and Express.js, implementing full CRUD operations, authentication middleware, and pagination to serve real-time network topology data to frontend dashboards.
- Built and deployed a Python script management service that orchestrates automated network monitoring, data ingestion, and scheduled ETL pipelines, improving operational efficiency and eliminating 10+ hours of weekly manual processes.
- Cut topology page load time from 2.4s to under 500ms by adding composite indexes on device-relationship tables and rewriting two N+1 join patterns in Drizzle queries.
- Developed responsive, accessible UI components with Material UI and React, transforming complex network graphs into intuitive, interactive dashboards used daily by technical and non-technical stakeholders.
- Onboarded and mentored 2 summer interns on the codebase and Next.js/Drizzle stack, pairing on their feature work and reviewing PRs through deployment.

TECHNICAL PROJECTS

Job Cannon - AI-Powered Resume-to-Job Matching SaaS [jobcannon.app]

Next.js | TypeScript | Claude API | Clerk | Stripe | Neon | Drizzle | Resend | Vercel

- Built and launched a full subscription SaaS solo: PDF resume → Claude extracts a typed profile → keyword pre-filter over a nightly-scraped startup-job corpus → Claude ranks top 10 with per-job reasoning → delivered by email at 8am ET, with a free instant-match preview as the funnel.
- Shipped the complete subscription lifecycle: Stripe Checkout with trial, signature, verified webhooks keeping Stripe in sync with Postgres, and the Stripe Customer Portal for self-serve billing, plus Clerk auth and a Vercel Cron daily-digest pipeline.
- Made a deliberate architectural call to use keyword pre-filter + LLM re-rank instead of vector embeddings: at ~5K jobs in a structured domain, it gave better precision with zero embedding infrastructure to maintain.
- Leveraged Claude Code to accelerate development across authentication, payments, dashboard, cron workflows, and launch operations; 3 paying subscribers as of June 2026.

Sahl Solutions - Productized Web Design Service for Local Businesses [sahagency.com]

Next.js | TypeScript | Tailwind CSS | Framer Motion | Vercel

- Designed a CONFIG-driven template architecture where each client site is generated from a single typed `site.config.ts` (colors, copy, sections, integrations), cutting per-client build time from days to hours and keeping every site on one upgrade path.
- Built 12 reusable section components (hero, services, testimonials, pricing, contact) with scroll-triggered animations via Framer Motion and full responsive coverage from a single source.
- Evaluated Framer (the design tool) as a faster-delivery path for entry-tier clients at the \$500 price point- traded custom control for setup speed, then settled on the Next.js template for \$1K+ tiers where SEO and bespoke integrations matter.

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML/CSS

Frontend: React, Next.js, Tailwind CSS, Material UI

Backend: Node.js, Express, FastAPI, REST APIs

Databases: PostgreSQL, Drizzle ORM, Redis

AI Dev Tools: Claude Code, Cursor, Copilot

Cloud & DevOps: AWS, Docker, GitHub Actions, Git