

# Yassin Benelhajlahsen

US Citizen | New York, NY | (646) 705-6069 | [yassinbenelhajlahsen@gmail.com](mailto:yassinbenelhajlahsen@gmail.com) | [LinkedIn](#) | [yassinb.me](http://yassinb.me)

## EDUCATION

---

### CUNY Brooklyn College

*Bachelor of Science in Computer Science*

- GPA 3.6/4.0

Expected May 2026

*New York, NY*

## EXPERIENCE

---

### Software Engineer Intern

June 2025 – Present

*Soaper*

*Remote*

- Shipped full-stack features across a React/TypeScript and FastAPI stack; optimized API layer to reduce p95 response times from 140ms to under 20ms and cut frontend latency by 25%.
- Led end-to-end Surescripts e-prescribing certification across 20+ NCPDP SCRIPT test scenarios; identified and resolved critical bugs in prescription routing, renewal response handling, and async message processing to achieve full certification for a live EMR.
- Designed and implemented a multi-parameter radiology search feature using indexed PostgreSQL queries over 120K+ rows, accelerating data entry workflows by 40%.
- Built and maintained backend services including EC2 deployments via systemd and Celery task queues for async prescription workflows, shipping 15+ production features alongside physicians and clinical staff.

### Infrastructure QA Engineer Intern

May 2025 – Aug 2025

*NYC Department of Education*

*New York, NY*

- Deployed and validated server and network infrastructure across 10+ NYC public schools; developed standardized walkthrough checklists that reduced post-deployment support tickets by 25%.
- Built Python automation scripts for server rollouts and on-site diagnostics across 5 boroughs, cutting per-school setup verification from 90min to 25min.

## PROJECTS

---

**Scorva** | *React, JavaScript, Express.js, Redis, Supabase, PostgreSQL, Prisma, OpenAI, Jest*

- Designed a normalized PostgreSQL schema across 9 related tables serving 300K+ stat rows; built a REST API layer handling multi-sport queries with under 30ms average response times.
- Built an agentic AI chat assistant using GPT-4.1-mini with a multi-turn tool-calling loop across 12 RAG tools for live stats, player comparisons, and web search; streams responses via SSE with automatic page-context injection.
- Architected a two-tier live sync system: a 15-second polling cycle for scoreboards and a 2-minute cycle for full box scores, pushed to the browser via PostgreSQL LISTEN/NOTIFY over SSE with automatic REST fallback on connection failure.
- Designed tiered Redis caching (30s–30d TTLs) across 8 endpoints, reducing response time on average by 75%; implemented auth with Google OAuth popup flow, JWT middleware, and cascading account deletion.

**SoaperNote** | *React, TypeScript, FastAPI, Firebase, Firestore, Stripe, OpenAI, WebCrypto API, Pytest*

- Built a full-stack clinical notes web app with AI-powered audio transcription via OpenAI Whisper and GPT-4o-mini-generated SOAP notes with dynamic template selection.
- Implemented client-side AES-GCM 256-bit encryption using the WebCrypto API to protect audio data in IndexedDB, with per-user key isolation via Firebase UID binding.

**Recvr** | *Next.js, TypeScript, Supabase, PostgreSQL, Prisma, Redis, OpenAI, Vitest, Playwright*

- Built a real-time recovery engine computing per-muscle fatigue from a 96-hour rolling window with volume-adjusted decay curves, cumulative fatigue stacking, and HSL-interpolated SVG body maps. Cached in Redis (5-min TTL), cutting 80% of redundant DB reads
- Streamed AI suggestions via NDJSON with chunk-boundary-safe parsing, integrated Groq Whisper for voice logging, and enforced Redis-backed cooldowns and rate limiting, cutting redundant AI calls by 90%.

## TECHNICAL SKILLS

---

**Languages:** JavaScript, TypeScript, Python, Java, C++, SQL

**Backend & Testing:** Node.js, Express.js, Next.js, Nest.js, FastAPI, Celery, PostgreSQL, Redis, REST API, Prisma, SQLAlchemy, Jest, Playwright, Pytest

**Frontend:** React, React Native, Expo, Tailwind CSS, Zustand

**Tools & Platforms:** Git, GitHub Actions, CI/CD, Docker, Vercel, Railway, Firebase, Supabase, Stripe, OpenAI, AWS (EC2, S3), Agile/Scrum