

Jarra Omar

Full-Stack Engineer

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SKILLS

Languages

- TypeScript JavaScript
- Python Java Kotlin
- SQL HTML/CSS
- Bash/Shell

Frameworks

- Next.js React Node.js
- Express.js FastAPI
- Vitest Jest
- TensorFlow PyTorch

Platforms

- Supabase PostgreSQL
- AWS Vercel Docker
- Kubernetes Nginx

Tools

- GitHub Actions Maven
- Playwright

Practices

- System Design
- Prompt Engineering
- End-to-End Testing
- Responsive Design CI/CD

PUBLICATION

Grier, B. D., Parkins, S., **Omar, J.**, & Lee, H. K. (2023). Selective plasticity of fast and slow excitatory synapses on somatostatin interneurons in adult visual cortex. *Nature Communications*, 14, 7165.

doi.org/10.1038/s41467-023-42968-y

SUMMARY

Full-stack engineer with **3+ years** building production applications, AI-powered systems, and enterprise integrations. Experienced in end-to-end software development, system architecture, and translating complex business requirements into scalable technical solutions.

EXPERIENCE

Full Stack Engineer

CloudBase Services, Berkeley, CA

2023 – 2026

- Led a **3-engineer team** through full-lifecycle client projects, from requirements gathering to deployment.
- Delivered production apps, integrations, and AI workflows across **30+ client engagements**.
- Implemented CI/CD pipelines, robust testing, and documentation standards to elevate code quality.
- Doubled** the company's portfolio of integration-ready client portals.

SELECTED PROJECTS

Multi-Tenant Community Platform

Independent project

- Built a multi-tenant platform for community organizations (staff portal, public website, shared Postgres backend), shipping newsletters, recurring events, and a public finance dashboard.
- Scales from one community to a network: per-community branding, an extensible multilingual, right-to-left-ready interface, and role-based access enforced in the database.
- Integrated **Square** for recurring donations and tablet kiosks, with **CI/CD** on GitHub Actions deploying every community in parallel.

Next.js

TypeScript

Supabase

PostgreSQL

Square API

GitHub Actions

AI Document Review Engine

CloudBase Services · adopted by client

- Architected one dynamic engine from two prior builds to automate labor-intensive document review, extracting key data with confidence scores; database-driven tags and prompts add new document types with no code.
- Designed a **five-stage pipeline**: concurrent OCR, smart page extraction, LLM extraction, and relational-database write-back.
- Applied **token management**, retries, and per-document failure tracking in one **Docker** container.

Python

FastAPI

Google Cloud Vision

OpenAI

Docker

Pursuit: A Human Bit-Rate Game

Independent project · Play it: pursuit-delta.vercel.app

- Bridging neuroscience and software: a browser game that measures human bit rate, the benchmark for brain-computer interfaces.
- Derived that bits per keystroke cap near **4.7** over 26 letters, so speed is the only lever; designed the board, input, and scoring around it, with a **95% confidence interval** on every result.
- Engineered a **deterministic**, framework-free TypeScript engine with an extensive automated test suite, so any scripted run reproduces its exact score.

React

TypeScript

Vite

Vitest

Vercel

EDUCATION

B.S. Computer Engineering

Brown University

2024

Senior Capstone: Electric Bicycle Conversion Kit with Regenerative Braking

- Engineered a regenerative-braking circuit that boosts a hub motor's 6–12 V to **~50 V**, enough to overpower a 48 V battery.