Basel Abdelsalam

Product Engineer

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Profile

Computer Science student building full-stack web products and workflow automation. Translate customer support needs into practical interfaces, backend APIs, payment reconciliation, and reliability improvements.

Technical skills

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

Frontend: React, Vite, Tailwind CSS, responsive HTML/CSS

Backend: Node.js, REST APIs, PostgreSQL, SQLite, webhooks

Tools: Git/GitHub, Render, Vercel, Telegram Bot API, Playwright, API testing

Selected engineering projects

Breakers Vault

Python, PostgreSQL, SQLite, JavaScript, Render

- Built account inventory and delivery workflows with variant availability, delivery history, role-aware administration, and Arabic-aware search using aliases, keyboard-layout correction, and fuzzy matching.
- Implemented staff TOTP authentication, single-use recovery codes, session revocation, six-hour inactivity expiry, a twelve-hour maximum session lifetime, and hash-based Content Security Policy.
- Moved hosted migrations out of web startup; added lock, statement, and idle-transaction timeouts plus separate readiness and liveness checks.

Breakers Payment

Node.js, PostgreSQL, REST APIs, Telegram, Render

- Built a transfer-confirmation gateway that parses bank notifications, matches amount and reference to orders, prevents duplicate receipt matching, and sends authenticated confirmation callbacks.
- Developed order creation and confirmation-status APIs, retry and review states, searchable admin workflows, and checkout fee breakdowns.

LootPad

React, TypeScript, Vite, Tailwind CSS, Telegram Mini Apps

- Built a Telegram rewards app with daily activities, referrals, achievements, balances, and withdrawal history; refined mobile navigation and progress displays.
- Converted the deployment architecture to a Vite SPA to address hosting issues and simplify frontend delivery.

Telegram Browser Automation

Python, Playwright

- Developed a multi-step workflow with persisted authorization, regional inputs, session cleanup, user-provided 2FA codes, and retry handling.

Experience

Customer & Technical Support

Breakers Store | May 2025 - Present

- Support customers and translate recurring payment and account-delivery issues into software requirements and clearer operational workflows.
- Investigate service availability and PostgreSQL locking incidents; document recovery procedures and implement changes to startup and transaction handling.

Education & languages

B.S. Computer Science (Cybersecurity) | British University in Egypt | Expected 2027

STEM High School graduate | Arabic: Native | English: Professional proficiency