

JUMA PAUL

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PROFILE

Software Engineer with hands-on experience building full-stack applications, automated data pipelines, and ML systems. Proficient in Python, TypeScript, and Node.js with production experience across backend APIs, database design, authentication systems, and machine learning. Builds end-to-end — from database schema to deployed frontend — with a focus on reliability, testing, and shipping products real users depend on.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL

Backend & APIs: Node.js, Express, REST APIs, JWT, OAuth 2.0, Microservice Architecture, CLI Development

Data & ML: PostgreSQL, MongoDB, SQLite, Pandas, PyTorch, Scikit-learn, RAG Pipelines, Data Validation

Frontend & Tools: React, Next.js, Tailwind CSS, TanStack Query, Zustand | Git, Docker, GCP Cloud Run, Vercel, GitHub Actions, Linux

EXPERIENCE

Software Engineer Intern — iCustomer.ai, San Francisco, CA Oct 2025 – Present

- Designed automated validation and ingestion pipelines using Python and SQL, processing and verifying 35,000+ structured records with systematic error detection.
- Built a retrieval-augmented search system across 500+ records, reducing manual lookup time from 10–15 minutes to under 10 seconds.
- Developed multi-stage data integrity checks to detect missing values, schema inconsistencies, and duplicate entries, improving downstream reliability.
- Built an internal analysis interface using Next.js and TypeScript with interactive filtering, debugging, and prioritization for large datasets.

Machine Learning Intern — Microsense Technology, Fremont, CA Sep 2024 – Dec 2024

- Designed and trained PyTorch CNN models achieving 90% accuracy for gesture recognition from 3D LiDAR sensor data.
- Integrated static and dynamic recognition models into a unified pipeline achieving 95% overall accuracy with end-to-end test validation.

PROJECTS

AuthKit — Self-Hosted Authentication Platform | Node.js • PostgreSQL • JWT • OAuth 2.0 • Next.js

[Live Demo](#) • [GitHub](#)

- Built multi-tenant authentication microservice handling JWT rotation, OAuth 2.0 (Google/GitHub), and TOTP-based 2FA with 196 tests across 4 test suites.
- Designed secure token architecture with httpOnly cookies, 15-min access tokens, 7-day refresh rotation, rate limiting, and CSRF-protected OAuth flows.
- Deployed containerized backend on GCP Cloud Run with GitHub Actions CI/CD; built Next.js reference client on Vercel with automatic token refresh.

The Simple Budget App | Node.js • Express • MongoDB • React • TanStack Query • Docker

[Live Demo](#) • [GitHub](#)

- Developing a full-stack MERN budgeting platform with RESTful APIs, JWT + Google OAuth authentication, and MongoDB with compound indexing.
- Containerized with multi-stage Docker build and deployed on Render; frontend uses TanStack Query and Zustand for state management.

DSAP CLI — Algorithm Practice Scheduler | Python • SQLite • PyPI

[PyPI](#) • [GitHub](#)

- Published a Python CLI tool to PyPI (290+ monthly downloads) with SM-2 spaced repetition scheduling, normalized SQLite schemas, and automated workflow execution.

EDUCATION

San Francisco Bay University — MSc, Computer Science (3.7/4.0) Aug 2023 – May 2025

Bugema University — BBA, Business Information Systems (3.7/4.0) Sep 2017 – Jul 2020