LUKE THILGEN

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SKILLS

Languages: Python, JavaScript/TypeScript, SQL, C++ (learning)
Frameworks/Libraries: Dash, Plotly, Node.js, Express
Data/Infra: MySQL, PostgreSQL, MongoDB, Git/GitHub, Linux, GitHub Actions
Focus: Backend APIs, data processing, interactive visualization, testing/CI

EXPERIENCE

StudentConnect — Back-End Lead · Jan 2024 – May 2024 · San Francisco, CA

- Designed and shipped REST APIs (Node.js/Express) for core platform features.
- Integrated MongoDB and streamlined request handling to reduce latency and errors.
- Partnered with front-end to align endpoints; added basic usage analytics and logging.

PROJECTS

NeuroLearn — Interactive 3D neuroanatomy · Python, Dash/Plotly, Trimesh · **Nov 2024 – Aug 2025**

- Clickable 3D brain model with region-level metadata; two modes (**Demo** without keys, **Full** local).
- Reproducible setup (requirements, .env) and CI basics for lint/test.
  Repo: NeuroLearn

Pharmaceutical Inventory Management DB · MySQL, SQL · **Aug 2024 – Dec 2024**

- Normalized schema (3NF) with constraints and indexes for users/patients/prescriptions/inventory/orders.
- Seed scripts + procedures/views (low-stock alerts, expiration notifications, supplier selection).
- Quickstart and ERD/EER diagrams in `/docs`.
  Repo: Pharmaceutical Database

EDUCATION

B.S., Computer Science — San Francisco State University, Dec 2024