Brayden Lomax

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Professional Summary

I build solutions to problems people didn't know could be solved with software. Whether that's pinpointing where to place a mining operation, finding a competitive edge in the art market, or reimagining data analytics in motorsport, I'm drawn to challenges that push me into unfamiliar territory. Rooted in software engineering and early in my career, but hungry to keep learning and growing with every problem I take on.

Skills

Languages: Java, JavaScript, Python, SQL, C/C++
Frameworks & Tools: Next.js, Node.js, Express, React, QGIS, Git, Postman, FastAPI, PostgreSQL
Concepts &Methodologies: RESTful APIs, Agile/Scrum, Systems Design, Database Design, Data Cleaning, Data Aggregation, GIS Analysis, Full Stack Development

Professional Experience

Software Engineer, Sol Zero Group - Seattle, WA May 2025 - Present

- Developing an internal knowledge base platform, consolidating company-wide and project-level documentation into a single unified system, eliminating $7,000 in SaaS costs while enhancing data privacy and security for sensitive project information.
- Driving development of a data aggregation and intelligence platform that collects and synthesizes information from 100+ art industry sources to build dynamic artist profiles to surface emerging talent and provide a competitive intelligence edge in the art market.
- Owned the end-to-end development of a proprietary GIS data analysis platform in QGIS that consolidated and visualized 15+ critical layers to identify and prioritize potential mining sites.
- Directed executive-level strategic planning by producing analytical reports and visualizations that identified over-mined areas and highlighting promising, underutilized, land parcels for acquisition.

Founder / Lead Engineer, LapLab January 2025 - Present

- Architecting and developing a full-stack motocross telemetry platform to capture and analyze ECU, GPS, biometric, and track condition data for competitive racing performance analysis.
- Prototyping the frontend application using Next.js and Node/Express, establishing the UI foundation for real-time data visualization and lap analysis.
- Implementing embedded data acquisition system for real-time sensor ingestion from ECU and GPS hardware.
- Defining full system architecture and data model, producing high-fidelity UI mockups and a technical work plan covering device integration, schema strategy, and ingestion pipeline design.

Full Stack Developer, Independent Contract July 2024 - January 2025

- Architected and built a full-stack organizational network platform that visualized a company of 500+ employees with each having 35 data attributes (roles, mentorships, teams, education, locations) to identify collaboration gaps and inform talent placement decisions.

- Developed a graph-based query system enabling real-time relationship analysis and pattern detection, reducing manual org chart analysis from hours to seconds through automated connection mapping.
- Delivered production-ready prototype through iterative stakeholder collaboration, successfully processing and visualizing 17,500+ data points across complex multi-dimensional employee networks.

Application Development Intern, Infosys June 2023 - August 2023

- Saved a senior development team 4 weeks of engineering time by building a currency exchange subsystem for a banking client, enabling real-time foreign currency transfers with live rate tracking, delivered in 10 weeks and integrated into the production platform.
- Implemented a multi-currency portfolio management interface allowing customers to create exchange pools at optimal rates with historical trends visualization, successfully integrated with client's core financial systems serving 50K+ account holders.

Education

Bachelor of Science, Computer Science August 2020 - May 2024

Indiana University Purdue University Indianapolis - Indianapolis, IN