

Mark Sianipar

Aurora, CO | (720) 862-4457 | [Email](#) | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

Full-Stack Developer

Full-Stack Developer specializing in delivering comprehensive applications that combine intuitive design, dependable backend systems, and efficient performance. With a strong STEM background, challenges are approached with a mix of ingenuity and logic, resulting in reliable outcomes. Extensive research and technical experience enable a deep understanding of client needs, effective planning for scalability, and the ability to adapt to evolving technologies. Experience spans both startup and Fortune 500 laboratory environments, with a proven track record of clear communication, collaboration, and mentorship.

Core Competencies

JavaScript	Tailwind CSS	GraphQL	Conflict Resolution
TypeScript	Bootstrap CSS	Agile/Scrum principles	Communication
HTML/CSS	React	Github/Git	Empathy
PostgreSQL	Node.js	Customer Service	Accountability
MongoDB	Express.js	Problem-solving	Team Building

Education and Certifications

Software Development Bootcamp , <i>ActivateWork, powered by Per Scholas</i>	Mar 2025 – Jun 2025
Full Stack Developer Bootcamp , <i>University of Denver, powered by edX</i>	Feb 2024 – Mar 2025
B.S. Biochemistry , <i>Colorado State University, Fort Collins, CO</i>	Aug 2015 – May 2019

Projects

PokedexGenerationz – React Application (Link)	May 2025
<ul style="list-style-type: none">Built a responsive Pokedex single page application with React, Vite, and Tailwind CSS, fetching real time data from PokeAPI and deploying via Netlify.Designed a modern dark-themed UI (DaisyUI) with dynamic routing, live search, and generation filters for smooth navigation.Optimized performance and UX through reusable components, responsive layouts, and detailed Pokemon profile pages.	
Pokemon Nuzlocke Tracker – MERN Full Stack Application (Link)	May 2025
<ul style="list-style-type: none">A full-stack application using React, Jotai, TailwindCSS, and MongoDB to manage game progress, including encounters, bosses, badge, and box/grave Pokemon.Implemented Secure user authentication using JWT stored in HTTP-only cookies, with CORS configurations for cross-origin deployment on Render.Designed modular components and global state management with Jotai for dynamic forms and real-time state updates across the app, improving UX and maintainability.	
AniVault – MERN Full-Stack (Link)	Mar 2024
<ul style="list-style-type: none">Integrated the Jikan API to fetch anime data and implemented genre-based filtering and randomization features for a personalized user experience.Designed and developed a full-stack web application using React, MongoDB/GraphQL, enabling users to discover random anime series by genre.Styled the application with TailwindCSS and DaisyUI, creating a responsive and visually appealing interface while ensuring optimal performance and usability.	

Google Books GraphQL Refactor – GraphQL Refactor ([Link](#))

Mar 2024

- Refactored the backend from NoSQL to GraphQL, improving query efficiency and flexibility while maintaining system performance and functionality.
- Integrated Apollo Server to handle queries and mutations, enabling precise data retrieval and reducing over-fetching.
- Ensured seamless migration with zero downtime, demonstrating the ability to adopt new technologies without disrupting existing systems.

Professional Experience

Lab Technician, AOA DX | Denver, CO

Feb 2024 – Aug 2024

- Contributed to advancing an innovative startup focused on developing an early detection platform for women's cancer, supporting development of cutting-edge health solutions.
- Successfully completed AOA DX's first large-scale cohort test, validating critical concepts of the company's early detection technology and supporting its development.
- Conducted root cause analysis of experimental challenges, proposing solutions to streamline workflows.

Hematology Lab Technician, Labcorp | Englewood, CO

May 2021 – Jun 2023

- Conducted diagnostic analysis on approximately 2,000 samples for CBC, coagulation, erythrocyte sedimentation, and hemepath reviews, consistently delivering results within a 12-hour timeframe to meet client needs.
- Introduced and implemented new practices to enhance efficiency, reducing turnaround times and improving client satisfaction.
- Mentored and trained 10 new hires and multiple interns on laboratory SOPs, ensuring adherence to protocols and fostering a collaborative learning environment.

Microbiology Lab Technician, Infinity Laboratories | Castle Rock, CO

Apr 2020 – Apr 2021

- Supported FDA compliance efforts for client pharmaceuticals and medical devices by manufacturing in-house reagents and conducting sterility testing to ensure products were safe and patient-ready.
- Performed Environmental Monitoring (EM) for contracted laboratories, employing aseptic techniques and analyzing microbial growth post-incubation to maintain quality standards.
- Recognized for strong performance and promoted within three months from Lab Assistant to Microbiology Technician, demonstrating dedication and growth in technical expertise.

Leadership & Services

Co-Treasurer, Rocky Mountain Indonesian American SDA Church | Aurora, CO

Dec 2024 – Present

- Oversaw budget management and departmental accounts, optimizing spending and reducing financial risks through daily tracking, monthly audits, and transparent reporting to Church Administration.
- Coordinated financial operations, facility maintenance, and community outreach projects by aligning resources, volunteers, and timelines to achieve organizational goals, including the successful launch of the church's first-ever community food bank.
- Facilitated communication across departments and board members to align on financial strategies, resolve budget challenges, and drive consensus in monthly meetings.