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	Bootstrap CSS	Node.js	GraphQL
TypeScript	GIT/Github	Express.js	Customer Service
HTML/CSS	Tailwind CSS	React	Problem-solving
PostgreSQL	Agile/Scrum principles	MongoDB	Conflict Resolution

Education and Certifications

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

Projects

AniVault – MERN Full-Stack (*[Link](#)*)   Mar 2024
- 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](#)*)   Jan 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.
- Developed standardized operating procedures (SOPs) to ensure consistency and reliability in the ELISA platform, enhancing operational efficiency and accuracy.

Hematology Lab Technician, *Laboratory Corporation of America*   Englewood, CO | May 2021 – June 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 | April 2021 – April 2023
- 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.