Stefan Lazarevic

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SKILLS

Software: Ruby, JavaScript, Rails, Express, Node, HTML, CSS, MongoDB, SQL, Git, AWS
Biomedical: Clinical informatics, experiment design, data analytics, validation testing

PROJECTS

Reps 'N' Recipes - A tool for tracking and visualizing fitness and nutrition progress. GitHub

- Engineered a versatile backend with Express.js and MongoDB, adapting to diverse fitness and nutritional metrics, with a responsive and engaging React frontend for seamless workout tracking and dietary planning.
- Implemented an intelligent workout generator and multimedia-enriched exercise library, incorporating real-time meal tracking through the integration of the Spoonacular API and Redux for state management.
- Leveraged Chart.js and AWS S3 to synthesize and visualize user-provided data, generating insightful, real-time analytics on performance and dietary intake with scalable media storage options.

Fakebook - A social platform allowing user interaction through posts, comments, and reactions. GitHub

- Architected a high-performance RESTful API with Rails, facilitating CRUD operations for user interactions, leveraging JBuilder for serialized data presentation, and optimizing data storage and retrieval with PostgreSQL.
- Integrated CSRF protection to bolster user authentication and security, fostering a reliable user experience.
- Enhanced application scalability by fine-tuning database queries and incorporating advanced caching, achieving a 40% reduction in page load times for improved user experience.

Modular Meals - A personal kitchen assistant that helps users craft their perfect recipe. GitHub

- Developed a user-friendly JavaScript platform offering access to 1.7 million customizable recipes, coupled with an advanced filtering mechanism for a tailored culinary experience.
- Launched real-time feature enabling instant recipe modifications & nutritional assessments with D3 and the Edamam API.

WORK EXPERIENCE

Graduate Researcher | Implantable Biosensing Laboratory – ICORD | Vancouver, Canada 04 / 2022 – 04 / 2023

- Conducted a research study investigating the effectiveness of blood-flow restriction training in individuals with incomplete tetraplegia, increasing subject strength and flexibility by an average of 26%.
- Developed data processing scripts using LabVIEW and MATLAB, implemented data collection protocols to associate physiological parameters with the lactate threshold in high-performance cyclists.

Mechanical Engineer | UBC Biomedical Engineering Student Team | Vancouver, Canada 09 / 2021 – 08 / 2022

- Spearheaded design and development of a posture-improving muscle activation device, scoring in the top-5 nationally.
- Utilized myography technologies for effective prototype testing and refinement.

Clinical Engineer | Advance Concussion Clinic | Vancouver, Canada 02 / 2021 – 07 / 2021

- Assisted in the product development lifecycle of a mobile application that enabled concussion patients to monitor their recovery progress by communicating cross-functionally with development teams.
- Provided support to clinicians in identifying injury causes/severity and educating patients on recovery pathways.

Mechanical Engineering Intern | Westshore Terminals Ltd. | Delta, Canada 04 / 2019 – 09 / 2019

- Collaborated with a team of IT professionals to create a scheduling iOS application to assist technicians in regular and thorough inspection and repair of heavy machinery, decreasing equipment downtime twofold over three years.

EDUCATION

Full-Stack Software Engineering Bootcamp | App Academy | San Francisco, CA 05 / 2023 – 09 / 2023

MEng. in Biomedical Engineering | University of British Columbia | Vancouver, Canada 09 / 2021 – 11 / 2022

BASc. in Biomaterials Engineering | University of British Columbia | Vancouver, Canada 09 / 2015 – 05 / 2020