

Skillset

Highly Proficient in - Javascript, Java, HTML/CSS

Proficient In - C/C++, MySQL, MongoDB

Frameworks - React, Redux, Node.js, Next.js, Express.js, Bootstrap, Less.js, JUnit, REST, Mocha, Chai

Cloud - Heroku, AWS, Vultr, OVH

Other Git Version Control, Unix, UI/UX Design, Graphic Design, Adobe Suite

Experience

Tribune Capital

March 2021 - present

Full Stack Development Intern

- Revamped multiple webpages/applications to utilize React, Node and Less to modernize tech stack and streamline potential client experiences.
- Migrated web server to AWS EC2 & RDS instances to utilize future scalability and employ effective cost saving measures in the interim saving ~80% of recurring costs.
- Transitioned and employed Github as a version control system and created concise/developer-friendly documentation to allow for seamless future collaboration.
- Designed and developed organizational model backend to sort, collect and store customer information utilizing REST, PostgreSQL, Node, and Express.
- Revamped existing API calls by removing redundant data transfer and optimizing search queries.
- Instituted proper SEO practices and optimized existing code base increasing page speed load times by ~30% and increasing visitor retention by ~40%.
- Engaged in the evaluation of multiple pre-seed and series A pitch-decks, relaying technical information in business friendly terms and providing key feedback.

Hermana

June 2021 - present

Product Development Intern

- Conducted competitor analysis, identifying and leveraging customer insight to develop a streamlined solution to present to product development team at Thin Air Labs.
- Designed UI/UX on Figma, leveraging industry leaders and market feedback to create a seamless data driven customer experience.
- Aided in the creation of a sales pipeline to forecast potential monetization aspects whilst using key data analytics derived from competitors to create an optimal pricing model.

Projects

Selected Projects:

[More details available at- github.com/sandipm02](https://github.com/sandipm02)

AIYM - Web application created in partnership with a large influencer aiming to reduce stagnation through daily challenges that address mental health, fitness and relationships with the ability to track a user's progress.

- Led the development of AIYM through conducting market research and leveraging customer insight to create application with Node, HTML, Javascript, CSS, and MySQL
- Launched AWS EC2 & RDS instances to allow for future scalability.
- Implemented back-end functionality features, including API's, User Profiles, Progress Tracking and rewards system.
- Designed UI/UX using AdobeXD with an emphasis on addressing accessibility.
- Created Authentication system using bcrypt to hash and salt information stored on AWS RDS MySQL instance.
- Acquired 1000+ unique visitors in 2 days with a 30% recurring retention rate over the following 3 weeks.

VentureTNT - A Minecraft Game Server created alongside a large Youtuber to address community requests.

- Utilized Vultr Bare Metal Dedicated Server with Ubuntu 18.04 to create a network of game servers using docker container instances, Pterodactyl Panel and MariaDB.
- Implemented OVH VPS to act as controller for a network of dedicated hardware, routing using bungeecord plugin.
- Internalized ssh-keys & sub-servers connections to mitigate unnecessary external exposure.
- Conducted java memory optimizations such as Aikars Java Flags to reduce RAM usage by over 20%.
- Migrated player data storage from YAML/txt to MySQL database to decrease scaling storage usage.
- Acquired over 1000 unique joins with a 70% retention rate over the following 2 weeks and a 5% conversion to microtransactions.

Education

B. Sc. Software Engineering (Entering 3rd Year), University of Calgary, Calgary AB

expected completion: May 2023

Noteworthy Courses: Data Structure & Algorithms, Databases, Digital Circuits, Signals and Transforms, Linear Algebra, Differential Equations, Assembly with MIPS

Other

Leadership:

Youth Ambassador at Action Dignity: Represented Disadvantaged Youth in Canada-wide conference held in Toronto, Ontario addressing socio-economic factors and associated strategies to spotlight systematic issues faced across Canada.

Program Co-Founder with SAIPA: Designed & developed program with the approval of UofC addressing COVID-19 related academic support shortcomings for incoming & international students that face educational discrepancies as a causeality stemming from the absence of a standardized education system.

Awards & Achievements:

Modern Niagara & Cowater Inter. Case Competition (Placed 3rd);

City of Calgary, Society of Professional Engineers (CCSPE) Community Involvement Scholarship;

Alexander Rutherford Academic Achievement Scholarship;

Jason Lang Academic Achievement Scholarship;

Kinsmen Club of Calgary Leadership Scholarship

