

HIGHLIGHTS OF SKILLS

- Experienced with: C/C++, Python, Java, TypeScript.
- Strong knowledge and experience in full-stack web development using: React, Node.js, MongoDB.
- Strong understanding of software engineering and design fundamentals, such as version control, CI/CD, containers, test driven development and object-oriented design.

EDUCATION

Bachelor of Science, Double Major Computer Science and Physics Graduated June 2022
University of Alberta // Edmonton, AB

- **Relevant coursework:** Intelligent Systems (AI), Algorithms & Data Structures, Software Engineering, Operating System Concepts, Computer Systems & Microprocessor Architecture, Numerical Methods, Machine Learning.

EXPERIENCE

Student Researcher May 2022 – Aug 2022
University of Alberta // Edmonton, AB

- Measured the motions of stars in young clusters using Gaia satellite data to characterize the turbulence in interstellar gas around them.
- Wrote tools in python to perform theoretical and mathematical computations on 3D vector fields.

Software Developer Intern May 2021 – July 2021
Beta Healthcare International Ltd. // Nairobi, Kenya

- Created and deployed a (Google Forms like) web application to handle form submissions and approvals.
- Used the MERN stack (MongoDB, Express, React, Node.js).
- Deployed application on local company servers.

Software Team Member Oct 2019 – Jan 2021
AlbertaSat // Edmonton, AB

- Developed MCU software for the Ex-Altas 2 satellite.
- Developed drivers implementing serial communication protocols such as I2C, SPI, UART.
- Collaborated with the software team on GitHub (Created and handled PRs).
- Represented AlbertaSat at various events including: Engineering Open House event and "Let's Talk Space".

PROJECTS

Popin May 2022
Startup company

- A web application that allows students to host and find events.
- Developed core features of the app using: Next.js and Firebase.
- Currently being used by U of Alberta students.

Canadian Reduced Gravity Experiment Design Challenge (CAN-RGX) Aug 2021
Research Competition, SEDS Canada

- Project title: Determining Response Differences to Microgravity in Male and Female Bioengineered Cartilage Tissue.
- Assisted in designing an electrical system for the project, created electrical schematics.
- Presented progress reports to SEDS, CSA, and NRC representatives.

AWARDS & CERTIFICATIONS

- Machine Learning. Stanford Online, Coursera | June 2019
- President's Award Scheme, Gold Award. Awarded by his excellency Uhuru Kenyatta (President of Kenya) | July 2016
- Acoustic Guitar, Grade 8. University of West London | Feb 2016
- Faculty of Engineering Academic Excellence Scholarship | Sept 2017
- University of Alberta International Country Scholarship | Sept 2017
- International Student Scholarship | Sept 2017