

Aditya Baindur

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Driven second-year undergraduate student with a growth mindset, eager to leverage robotics, finances and computer science to create meaningful change in my community

EDUCATION:

Honors BSc Physics and BSc Electrical Engineering, University of Ottawa
Dean's List, Fall 2024

Expected Winter 2027

SKILLS:

- o **Technical:** Java, Python, JavaScript, Docker, Raspberry Pi (python), Git, GitHub, SQL, Bash, Golang.
- o **Frameworks & Libraries:** React, Next.js, Spring Boot, Express.js, Vite.js, Prisma, Solace PubSub+, Cairo (smart contracts), Tensorflow, BERT.
- o **Other:** Natural Language Processing (NLP), Machine Learning, Event-Driven Architecture, Blockchain (Starknet)

PROJECTS:

Servera (Jan 2025 - Present)

- Contributed as a React engineer to the development of Servera, a SaaS web app that uses Google Gemini AI to generate and deploy micro-services within a Spring Boot environment.
- Focused on building the frontend of the app, enabling users to request micro-service creation and seamlessly integrate generated endpoints into their software.

ML Model to Predict Personality Types of a User (Fall 2023)

- o Leveraged deep learning to predict MBTI personality types from text inputs
- o Applied Natural Language Processing (NLP) techniques for text analysis
- o Implemented a pre-trained BERT model with TensorFlow for real-time user predictions

Morse Code Encrypter and Decrypter (Summer 2023)

- o Developed a Morse code encoder using Raspberry Pi 3b and GPIO inputs
- o Engineered a Python algorithm to decrypt Morse code into text
- o Facilitated global encrypted message transmission via SSH tunnel.

Instant Messaging Platform (Winter 2022)

- o Designed and built a custom chat app using Firebase and Android Studio in Java
- o Developed a custom encryption algorithm for secure messaging based on a Ceasar Ciper
- o Scaled platform for global communication, supporting 10+ users

EXPERIENCE:

First Global Team Mauritius, Geneva, Switzerland (2023)

- o Designed and built the robot's main drivetrain and lift system for efficient ball capture.
- o Represented Mauritius on an international stage among 179 countries, achieving a top 30% finish

HACKATHONS:

Ottawa Hack VII (January 2025)

- o Winner 3rd Place in Starknet Challange

Built a Pomodoro-style study room with smart contracts and a React/TypeScript frontend in 12 hours, with no prior smart contract experience.

Hack the Hill 3 (Sept 2024)

- o Winner 3rd Place in Cienna Challenge by developing a Peer-to-Peer File Sharing System
- o Implemented SHA-256 hashing algorithms to verify file integrity using checksums