

*Willing to relocate anywhere in US/Canada, do not need sponsor

EDUCATION

University of Waterloo

Bachelor in Mathematical Optimization and Statistics, Computational Mathematics Minor

Ecole Polytechnique Federale de Lausanne

Bachelor Exchange, Mathematics and Computer Science

Waterloo, Canada

Sep 2020 - Dec 2023

Lausanne, Switerland

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Aug 2022 - Dec 2022

SKILLS

- Programming Languages: C++, C, Python, Java, Node.js JavaScript, C, Kotlin, Go
- Technical Skills: Angular, React, Git, HTML, GitLab, SQL
- Databases/Other: AWS(Redshift, S3) Spring Boot, MongodDB, REST APIs(GraphQL), NoSQL,

PROJECTS

Casino Number Guessing Game

Deployed an application for the Number Generation by C++

- o Initial Guess: Operated the algorithm by using the package cstdlib to develop the limited attempted system
- Backup System: Built the interactive system to let the user attempt, and tested the number with the system generated

Full-Stack Application for the Heart-Rate Game

Used Android Studio to construct an application for testing the user's health condition

- **Platform Development**: Established a framework by Kotlin for the essential functions platform and created a user-friendly interactive window.
- Internet of Things: Connected with the device smartwatch and pad for the future application; and for these two devices adaptation processing
- Bank-end/Database Construction: Created and scored the user information in the database, and evaluated their score based on the data on the account.

Face Recognition System

Contributed a face-recognizable model by using the MatLab

- Image Processing: Implemented the MatLab faceDetector package; captured 150 photos and recognized the human face location in each image .
- Machine Learning: Constructed the learning model for the model, and trained the model to Increase the accuracy rate to 65 percent
- Real-time Recognition: Iterated optimization results in a speed delay of less than 5 seconds for real-time simultaneous transmission.

EXPERIENCE

UW Cognitive Linguistics Research Group

Waterloo, Canada

Web Developer

Jan 2023 - Present

- **Development Skills**: Contributed to a frontend research database and crowdsourcing by react.js, Typescript, a Golang REST API and responsible for the maintenance
- Database Establish: Managed, optimized and updated the essential content page by using React.js
- Command Control: Executed the terminal command by the instruction by using the git and Linux.

EPFL Statistical Data Science Group

Lausanne, Switerland Sep 2022 - Jan 2023

Data Science Research Assistant

- Model Stimulation: Developed materials and methods by MatLab for data collection and analysis, create representative graphs and charts highlighting results for presentations.
- Analysis: Understood of addressing and metadata standards. Collected and analyzed data; summarize findings on project findings. Analyzed existing tools and databases.
- **Techniques**: Conducted literature searches, helped in conducting quantitative analytical processes of data using MatLab, Python to test