# OLIVIER
# VADIAVALOO

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## 🎓 EDUCATION

**BSc Specialization Computing Science | UNIVERSITY OF ALBERTA**

SEPT 2018 – APR 2022

**Major GPA:** 3.90 | **Dean's Honor List:** 2018-2022 | **Academic Achievement Award:** 2019-2022

**Relevant Courses:** Database Management Systems, Web Applications & Architecture, Software Engineering

## 🛠 SKILLS

**Programming Languages:** Java, Python, C, C#, JavaScript, HTML, CSS, SQLite3

**Tools & Technologies:** Git, Heroku, Firebase, Pandas, Amazon Athena, Amazon S3, Django

**Others:** Relational Databases, Program Synthesis, Complexity Analysis, Problem-solving, Object-oriented Design

## 💼 EXPERIENCE

**Research Intern | UNIVERSITY OF ALBERTA | See project** ⧉

MAY 2021 – SEPT 2021

- Developed three games-related benchmarks in Python for programmatic strategy synthesis based on stochastic search, under the supervision of Dr. Levi Lelis.
- Conducted and reported results from more than 500 experiments on the Beluga cluster using SLURM scripts.
- Increased by at least 5% the strength of synthesized solutions using optimization strategies, such as Bayesian optimization.
- Generated graphs using Seaborn to demonstrate the benefits of a strategy triage system during program synthesis.
- Built a synthesizer using Interpreter pattern and object-oriented design.

## ⋯ PROJECTS

**Social Distribution | See project** ⧉

SEPT 2021 – DEC 2021

- Worked in a scrum team to create a peer-to-peer, distributed social networking application partially based on Activity Pub.
- Built a fluid user-interface from scratch using Bootstrap, HTML, and CSS.
- Automated deployment of application on Heroku.
- Assisted in writing an API using Django to allow for seamless peer-to-peer connections with other hosts.

**BookBox | See project** ⧉

SEPT 2020 – DEC 2020

- Created an Android application to provide a platform for quick and easy book exchanges amongst users.
- Capitalized on Firebase's ML KIT to allow users to search for book details by scanning ISBNs using their phone cameras.
- Stored and performed CRUD operations on book details and user information using Firestore.