

VEDANT VYAS

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EDUCATION

University of Alberta

B.Sc Honors in Computer Science

Coursework: Hons Linear Algebra, Computer arch, Probability, Algorithms,
Advanced Hons Calculus 1 & 2, SQL, C, Intro Machine Learning, Abstract Algebra, Real Analysis
Major GPA: 4.00/4.00; Overall GPA: 3.9/4.00

Edmonton, AB
Sep 2020 - May 2024

EXPERIENCE

Research Assistant

University Of Alberta

Edmonton, AB
May 2022 – Aug 2022

- Research Assistant under Dr Nelson Amaral and Dr João Paulo Labegalini de Carvalho.
- I worked on a unified MLIR dialect in collaboration with IBM that will allow the use of IBM MMA operations in MLIR to boost matrix multiplication operations which aim at improving the speed of compilation for Machine Learning frameworks
- Worked on the creation of cmput 229 (Risc-V) coursework over the summer, that included writing grading scripts using multithreading and shell, using manim to create animations, and lastly writing a solution in RISC-V machine instructions.
- Every week we had a round table discussion of a research paper selected by Dr Amaral

Teaching Assistant (CMPUT 204 and MATH 228)

University of Alberta

Edmonton, AB
Sep 2022 – Present

- Teaching assistant for Algorithms course, which mainly teaches design and analysis of algorithms along with Data Structures.
- As a TA for CMPUT 204, I conducted seminars, helped students understand the material and graded student assignments.
- As a TA for MATH 228 (Ring Theory), I graded assignments and helped students by answering their questions

Co-Founder

ArcaneLost

Edmonton, AB
Mar 2020 – May 2022

- Blogging website started with a friend of mine
- Managed a team of six
- Responsible for editing custom CSS and Javascript, and writing [content](#) for the website

RELEVANT PROJECT EXPERIENCE

[Meal Planner App](#)

- This is a meal planner app, which lets users organize the ingredients at home, add recipes, plan meals and has an automated shopping list, which is created based on the meal plan for the week.
- We used google firebase to store the user data (which is linked with their login credentials). App was primarily written in Java using the Android Studio framework. To understand the functioning of the app better, read [this](#)

[Movie Database Terminal App](#)

- This is a movie and cast member data processing app that allows users to manage a database of movies, search for all the movies using keywords, add movies, update info related to movies and some other operations.
- Used pymongo(mongodb) for query processing and database management, python for preprocessing
- To understand the functioning of the app better, read [this](#).

HONORS & AWARDS

[4th rank in CCPC\(Calgary Collegiate Programming Contest\) 2021](#) that got me a cash reward, Undergraduate Student
Scholarship Awardee, Dean's List (2 years)

CAMPUS & COMMUNITY INVOLVEMENT

Problem Solving Club, *Member*

Aug 2020 – Present

U Of A Student Union, *Science Councillor*

May 2022 – Present

Mathematical Sciences Society, *Member*

Sep 2021 - Present

SKILLS

Programming: C++, Python, Risc-V, C, Julia, Regex

DataScience: Pandas, Numpy, Matplotlib, Seaborn

Query: MySQL, Sqlite3, MongoDB

Algorithms: sub 1500 rank at [Kattis](#)