

Ayaan Merchant

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EDUCATION

University of Alberta, Edmonton, AB

September 2022 – Present

Bachelor of Science for Computer Science with Business Minor

- Noteworthy Courses: Computer Architecture, Software Engineering, Database Systems, Algorithms, Discrete Math, Robotics
- Dr Gary McPherson Leadership Award for community service and outstanding leadership
- Ubuntu Individual Social Responsibility Certificate building communities through donations, volunteering, environmental initiatives

EXPERIENCE

Aga Khan University Hospital, Karachi, Paksitan

May 2024 – Current

Data Analytics and Research Intern

- Analyzed research data with **Python/Excel/SPSS/SQL**, statistical tests using **scipy, pingouin**, identifying trends and correlations
- Used **pandas, matplotlib, tableau, seaborn** for data cleaning, aggregation, manipulation, and visualization
- Working on publishing analysis findings, providing recommendations to enhance **data collection, analysis, integrity processes**
- Led workshops on AI in research, analysis, and ECE, as well as a workshop in use of Python, delivered to non-technical audience
- Working on a sophisticated **scoping review** on AI in Early Childhood Education (ECE)
- Will be developing an app for ECE using **Java, React Native, Flutter, Python**, implementing APIs, using AWS for cloud

Ethically Aligned AI, Edmonton, AB

September 2023 – February 2024

Business Analyst (Internship – Remote)

- Researched and identified problems in high stake firms to be solved with AI/ML
- Documented user processes, elicited requirements, created product requirement documents, demonstrated strong technical writing ability
- Acquired comprehensive knowledge of AI ethics and its application in AI/ML development
- Designed wireframes/prototypes (mobile, desktop) **Figma**, created website with Wordpress (**HTML5, Elementor**) for ERP company

Salam Ratings, Edmonton, AB

July 2023 – October 2023

Web Developer (Internship - Remote)

- Developed a dynamic web application using **HTML5, CSS, Javascript, React**, deployed with npm/Node.js in production environment
- Used web frameworks - Tailwind CSS for user interface, Supabase to manage cloud storage - retrieval and manipulation.
- Collaborated with product managers and team members for feedback exchange through iterative software development cycle using Git

Gaia, a JA Company, Edmonton, AB

February 2022 – June 2022

Founder & Elected Vice President of Finance

- Learned financial systems within a week and helped generate 60% profit within 5 months
- Administered all financial operations, developed financial strategies, created financial statements to report accurate financial results
- Worked with other executives (Production, Technology) and external parties (Shopify, Square) to reach company goals

PROJECTS

Rise of Empire: Productivity Tracker

2023

Gamified productivity app for time tracking and insights for time management and boost user productivity

- **Objective-C, Swift**, Cocoa frameworks used, paired with UIKit and SpriteKit for cross-functional mobile app development in Xcode
- Designed (UI/UX) and prototyped initial layout using Figma to create an MVP (mobile), ongoing enhancements

Business Club Management System

2022

Club management system to streamline operations for member information, attendance tracking, and financial management

- Functioned as a business consultant, collaborating with internal and external stakeholders, developing software solutions
- Implemented data parsing with use of **SQL** and **Python** with data cleaning/preservation/validation/manipulation – ensured data security

VOLUNTEER EXPERIENCE

- **EnactusUAB, Co-Lead App Developer** – developed app in **Swift, Java**, Angular framework in teams, Firebase database for cloud
- **Aga Khan Volunteers, Director** – managed and delegated team of 7-10 volunteers to handle daily events, involved 100+ members
- **Ismaili Student Association, Marketing Rep** – increased participation by 300% through content creation and advertisement

HONORS/AWARDS

- Computer Science and Technology Award for contributions to the field, and innovative problem-solving
- Member of Parliament Youth Leadership Award for outstanding leadership in school and community
- Queen Ventures Award for community involvement and active participation in outdoor activities

Technical Skills: Python, SQL, HTML5, CSS, Java, PHP, Swift, C, R, Excel, React Native, Flutter, React, Azure, AWS, Docker