

Tanaya Kaundal

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EDUCATION

Bachelor's of Science Mathematics, *University of British Columbia*

Sep 2021 – Apr 2026 | Vancouver, Canada

PROFESSIONAL EXPERIENCE

Data Analyst Intern, *Mindari Technology*

Sep 2024 – Dec 2024 | Abu Dhabi, UAE

- Examined ML tradeoffs of 10 **PyTorch**, **Tensorflow** facial detection and recognition models by generating confusion matrices, ROC curves and Precision-Recall curves with **matplotlib.pyplot**
- Reduced **latency by 95%** with the use of **Faiss**'s vector indexing library to optimize query performance for real-time prediction and improve overall data processing efficiency
- Achieved a **98% precision rate** calculated with **scikit-learn**, enabling reliable access control on **Flutter** crossplatform app with client-server **WebRTC** videostreaming

Linear Algebra Notetaker, *University of British Columbia*

Jan 2023 – Apr 2023 | Vancouver, Canada

- Delivered essential academic support for students with disabilities at UBC, ensuring equal access to lecture materials and enhancing their learning experience
- Demonstrated strong written communication skills by producing organized, detailed, and clear class notes promptly, facilitating better understanding and retention for students

PROJECTS

RouteRecs

Jul 2024 – Present

- Developed **RESTful API** endpoints for creating, updating, and deleting logs using **TypeScript**, enhancing user route tracking and data management
- Leveraged **GitHub** during collaboration with a team partner by using version control to streamline code integration and enhance project development

Portfolio Website 

May 2024 – Nov 2024

- Created a detailed wireframe in **Figma**, outlining 4 views to create a clear roadmap on project's design and functionality with responsive design to deliver a consistent and user-friendly experience
- Implemented a **React** frontend using **Vite**, enabling hot reloading to track changes real-time during development
- Utilized **CSS** and **Three.js** for dynamic styling, allowing for customizable and maintainable design components throughout the application

Dungeons and Dragons Spell Book 

Jun 2023 – Dec 2023

- Serialized and migrated **462 complex spell data** from **JSON** into **SQLite** database through exemplary data collection and preprocessing skills
- Developed reusable and functional components with Class Based Views in **Django** to build high-quality and maintainable code throughout the project
- Enabled users to load and save their spell configurations of each character by creating persistence classes and manipulating them with **REST APIs** built using the **Django REST framework**

Movie and TV Show Watchlist 

Jan 2022 – Apr 2022

- Constructed **UML design diagrams** and utilized prominent software design patterns to easily implement **Java** backend and **Java Swing** GUI in a 4 month time frame
- Displayed strong analytical and problem-solving skills through **JUnit** unit tests with **100% code coverage** according to concise self-written user stories

SKILLS

Python, Java, JavaScript, PyTorch, Tensorflow, OpenCV, NumPy, Matplotlib, Scikit-learn, MongoDB, SQLite, Git, VSCode