



Roselina Kezia Rijadi

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Education

University of British Columbia

Expected May 2027

Bachelor of Science, Computer Science

Vancouver, BC

- Awards: 1st Place and Best Solo Hack at Garuda Hacks 5.0, 1st Place at BOLT UBC x Mastercard Analytics Case Competition, 1st Place at WiDS UBC x SAP Case Competition, Best Visualization at WiDS UBC x ASA Datafest.
- Active community leader directing events at nwPlus, UBC Product Management Club, and Women in Data Science.

Experience

Undergraduate Teaching Assistant

Sep 2024 - Dec 2024

UBC Department of Computer Science

Vancouver, BC

- Incoming undergraduate teaching assistant for a software construction course taught in **Java**.

Undergraduate Researcher

July 2024 - Present

MIT Computer Science and Artificial Intelligence Lab

Remote

- Conducted literature reviews on applications of high-performance computing on graph neural networks.

Software Developer

May 2024 – Present

Develop for Good

Remote

- Developing a new interface for a web-based CRM to optimise Swim England's **30+ internal processes**, cutting down on annual administration time by an approximated **4,000 hours**.
- Automating form validation and permit issuance through a new backend system using Zapier and Open Engage API.

Web Development Lead

May 2021 – Jan 2023

INFISA Journalism Club

Jakarta, Indonesia

- Developed a dynamic website with Editor X, Javascript and JQuery, featuring weekly polls and article popularity ranks.
- Led a team of **12 volunteers** that executed design, coding, and content updates for **400+ annual users**.

Projects

JalanKami | *React, Tailwind CSS, Flask, Firebase, OpenAI API, Pytorch*

July 2024

- Developed a first-place-awarded application to improve pedestrian accessibility by automating manual sidewalk surveys.
- Integrated **YOLOWorld**, a zero-shot detection model to evaluate sidewalk conditions through Google Street View.
- Collected and labelled a dataset of **78 sidewalk images**, then used to train the model to achieve a loss of **0.21**.
- Integrated **OpenAI API** to generate key issues and suggestions for any area through querying detections by geohash.
- Won **1st Place and Best Solo Hack at Garuda Hacks** out of field of 108 project submissions.

Study Spotter | *React, Next.js, Typescript, Hugging Face API, MongoDB, Redis, Google Cloud Platform*

June 2024

- Designed and developed a web app using React and Next.js where users can search, share, and review study spots.
- Implemented functionality for users to filter by distance, amenities, noise level, institution, and building.
- Added pagination and user reviews functionality using **Prisma** and **MongoDB** operations.
- Implemented a **kNN-based recommendation** system to display similar spots using **Hugging Face API**.

ReadBuddy | *HTML, Tailwind CSS, Javascript, Google Cloud Platform*

March 2024

- Developed a browser extension that integrates accessible display features on websites.
- Integrated text-to-speech, a ruler, and font customisations designed for users with dyslexia and visual impairments.

Technical Skills

Languages: Python, Javascript, C++, Typescript, Java, HTML, CSS, R

Libraries/Frameworks: React, Redux, Flask, Next.js, Pandas, NumPy, Matplotlib, Pytorch, Node.js, Axios, OpenAI

Developer Tools: Git, Google Cloud Platform, MongoDB, Redis, Prisma, Firebase, VSCode