

# Roselina Kezia Rijadi

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## Education

### University of British Columbia

Expected May 2027

*Bachelor of Science, Computer Science (GPA 3.99/4.00)*

*Vancouver, BC*

- Awards: Electro Federation Canada Scholarship Recipient, 1st Place at Garuda Hacks, 1st Place at BOLT UBC x Mastercard Analytics Case Competition, 1st Place at WiDS UBC x SAP Case Competition.
- Building inclusive tech communities through organizing hackathons at nwPlus and UBC Women in Data Science.

## Experience

### Kawan Lama Group

Sep 2024 – Dec 2024

*Software Engineer Intern*

*Remote*

- Developing an incident management system with **Rails** and **Postgres**, automating alerts via Slack and email.
- Reducing incident response time by an **estimated 30%** by streamlining on-call scheduling and incident reviews.
- Accelerated release time by **2 hours** by automating **Docker** deployment and configuring CI/CD with Github Actions.

### UBC Advanced Research Computing

Sep 2024 – Present

*Platforms Support Analyst*

*Vancouver, BC*

- Minimized downtime by resolving **95%** of incidents within 24 hours through troubleshooting software issues.
- Supporting **over 200 research projects** through configuring **HPC Linux** systems and managing SLURM job queues.

### UBC Department of Computer Science

Sep 2024 – Dec 2024

*Undergraduate Teaching Assistant*

*Vancouver, BC*

- Co-leading labs and advising project development for **over 80 students** on OOP concepts and **Java** program design.

### Swim England

May 2024 – Aug 2024

*Software Developer*

*Remote*

- Developed a CRM web application and integrated REST APIs to streamline **6 processes** including payments.
- Reduced administrative workload by **4,000 hours** annually through automating data population in user-facing forms.
- Improved data processing efficiency by **36%** through automating validation against OpenEngage and email workflows.

## Projects

### JalanKami 🗺 | *React, Tailwind CSS, Flask, Firebase, OpenAI, Pytorch*

Jul 2024

- Won **1st Place and Best Solo Hack** at Garuda Hacks out of field of 105 project submissions.
- Developed a web 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 preprocessed a dataset of 80 sidewalk images, then used to train the model to achieve a loss of **0.21**.
- Integrated **OpenAI API** to generate key accessibility suggestions for any area through querying detections by geohash.

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

Jun 2024

- Developed a web application that allows users to search, share, and review study spots.
- Implemented functionality for users to filter by distance, amenities, noise level, institution, and building.
- Optimized data handling by integrating pagination and user reviews with **Prisma** and **MongoDB**.
- Implemented a **kNN-based recommendation** system to display similar spots using **Hugging Face API**.

### SPArk Fraud Detection Model 🗺 | *Python, NumPy, Matplotlib, Scikit-learn, Seaborn, Tableau*

Mar 2024

- Won **1st Place** out of over 50 teams in the BOLT UBC x Mastercard Analytics Case Competition.
- Developed a random forest model for fraud classification, scoring **0.91 precision and accuracy** on the given dataset.
- Conducted exploratory data analysis and created pitch deck visualizations using **NumPy, Matplotlib, and Seaborn**.

## Technical Skills

**Languages:** Python, JavaScript/TypeScript, C++, Java, HTML, CSS, Ruby, R, SQL

**Frameworks:** Flask, Next.js, Node.js, Express, Pytorch, Rails

**Libraries:** React, Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Axios, OpenAI, Hugging Face

**Developer Tools:** Git, Docker, Google Cloud Platform, MongoDB, Redis, Prisma, Firebase, VSCode, Tableau, Postgres