

# Charisma Pramudya Rusdiyanto

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## EDUCATION

### The University of British Columbia

*Bachelor of Applied Science, Computer Engineering*

**Related Courses:** Software construction, Machine learning, Operating system, Signal processing, and Networking

**GPA:** 84.4%

Expected Graduation 2026

*Vancouver, BC*

## TECHNICAL SKILLS

**Languages:** Java, Dart, Javascript, Typescript, Python, C, C++, C#, HTML, CSS, SQL, Matlab

**Technologies:** Next.JS, React, Flutter, Firebase, Flask, Rest API, Git, Cloud Computing, LLM, Tailwind, Figma

**Relevant Skills:** Solidworks, Assembly

## TECHNICAL PROJECTS

### RoboRacer-AI | *Python, C++, TensorFlow, ROS, OpenCV*

January 2025 - April 2025

- Developed an autonomous racing robot using computer vision and machine learning algorithms to navigate a complex track.
- Implemented path planning, obstacle detection, and real-time decision-making systems.

### AI - Assistant Course Planning Workspace | *Next.JS, React, Typescript, Jira*

January 2025 - April 2025

- Developed a modern web application for efficient academic planning with degree visualization, prerequisite tracking, and course scheduling.
- Implemented AI-Assistant to automate process and reduce complexity.

### Conditional PixelCNN++ | *Python, PyTorch, Cuda, Kaggle*

January 2025 - April 2025

- Implemented and enhanced a deep learning model for high-quality image generation using conditional PixelCNN++.
- Optimized model performance for real-time generation and reached **80%** of accuracy.

### AI Study Assistant | *Rest API, Git, Langchain, , MongoDB, Javascript, Flask*

September 2024 - December 2024

- Designed an AI chatbot that uses Llama 3.2 Combined with Retrieval Augmented Generation to aid students comprehend course materials.

## EXPERIENCE

### Indonesian Ceremony Committee

June 2023 - August 2024

*Indonesian consulate at Vancouver*

*Vancouver, BC*

- Selected to represent and lead ceremonial duties during the National Independence day, collaborated with a team to coordinate movements and protocol in front of an audience of government officials and public.
- Related skills: Discipline, Time management, leadership, and attention to detail.

### Peer Mentor

September 2023 - April 2024

*Vantage College, University of British Columbia*

*Vancouver, BC*

- Provided peer support to UBC Vantage college students by collaborating with teams and UBC vantage college staff to hold monthly events.
- Related skills: Collaboration, Logistic management, and Time management.

### UBC Orientation Leader

November 2022 - March 2023

*Vantage College, University of British Columbia*

*Vancouver, BC*

- Guided and mentored a group of new incoming students during orientation week, fostering a welcoming and inclusive environment.
- Related skills: Inclusive, Time management, leadership, and Organizational skills.

## HONORS AND AWARDS

### Awardee of Indonesian Government Scholarship

September 2022 - August 2026

*Ministry of Education, Culture, Research and Technology of Republic Indonesia*

- Honored with a fully funded scholarship to pursue a 4-year bachelor's degree in computer engineering at the University of British Columbia.