Charisma Pramudya Rusdiyanto

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Portfolio Website
Vancouver, Canada

EDUCATION

The University of British Columbia Expected Graduation: May 2026
Bachelor of Applied Science in Computer Engineering *Vancouver, BC*
GPA: 84.4% *(3.6/4.0)* | ***Relevant Coursework:*** *Software Construction, Machine Learning, and Artificial Intelligence*

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, JavaScript, TypeScript, Dart, C#, HTML/CSS, SQL
Frameworks & Libraries: PyTorch, TensorFlow, React, Next.js, Flutter, Flask, LangChain, OpenCV, ROS
Tools & Technologies: Git, MongoDB, Firebase, REST APIs, Docker, Jira, WandB, LM-Studio
Design & CAD: SolidWorks, UI/UX Design, Technical Documentation

TECHNICAL PROJECTS

F1tenth Autonomous Racing Car | *Python, C++, TensorFlow, ROS, OpenCV* Jan 2025 - Apr 2025
- Collaborated with a team of **5** to develop an autonomous racing robot using computer vision and machine learning algorithms
- Implemented real-time algorithm and decision-making systems, improving progressive performance by **60%**
- Achieved **3rd place** in competitive racing contest among **10+** teams through optimized control algorithms

AI-Powered Course Planning Platform | *Next.js, React, TypeScript, Jira* Jan 2025 - Apr 2025
- Led a team of **5** to develop a modern web application serving as an enhanced alternative to Workday's schedule planner
- Designed comprehensive academic planning features including degree visualization, prerequisite tracking, and intelligent course scheduling
- Integrated AI assistant to automate planning processes and reduce scheduling complexity for students
- Improved UI/UX through user requirement analysis and mental model research, achieving **25%** higher user satisfaction compared to Workday

AI Study Assistant with RAG | *Python, Flask, LangChain, MongoDB, REST API* Sep 2024 - Dec 2024
- Developed AI chatbot using Retrieval Augmented Generation (RAG), enhancing students' learning process
- Implemented containerized microservice architecture with REST API for scalable deployment
- Followed industry-standard practices e.g. Jira project management, DevOps workflows, and comprehensive testing
- Evaluated **10+** offline medium-sized language models to identify optimal solution for RAG implementation

LEADERSHIP & VOLUNTEER EXPERIENCE

Peer Mentor Sep 2023 - Apr 2024
Vantage College, University of British Columbia *Vancouver, BC*
- Provided comprehensive peer support to **100+** ESL students by collaborating with staff to organize periodic academic and social events, receiving approximately **80%** overall satisfaction.
- Developed key skills in collaboration, logistics management, leadership, conflict resolution, and time management

UBC Orientation Leader Nov 2022 - Mar 2023
Vantage College, University of British Columbia *Vancouver, BC*
- Guided and mentored **50+** new students during orientation week, creating a welcoming and inclusive campus environment, receiving more than **90%** satisfaction.
- Strengthened organizational skills, time management, leadership abilities, and cultural sensitivity

HONORS & AWARDS

Indonesian Government Scholarship Recipient Sep 2022 - Aug 2026
Ministry of Education, Culture, Research and Technology, Republic of Indonesia
- Awarded **$200,000+** full scholarship covering tuition, living expenses, and academic support for **4-year** Computer Engineering degree at UBC
- Selected from competitive national pool based on academic excellence and leadership potential