

# Vincent Nathaniel Wirawan

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**Skills:** Java, C++, MongoDB, React.js, MySQL, Python, Javascript,  
**Tools:** Git, NumPy, TensorFlow, PyTorch, Jupyter, Roboflow, OpenCV, Unity.

## EDUCATION

<b>Bachelor of Science in Computer Science &amp; Software Engineering</b>   University of Washington	June 2024
<ul style="list-style-type: none"><li>GPA 3.68 / 4.0</li></ul>	
<b>Associate in Science</b>   Edmonds College	June 2022
<ul style="list-style-type: none"><li>GPA 3.83 / 4.0</li></ul>	

## EXPERIENCE

<b>Software Engineer Internship</b>   IndoCyber Global Teknologi	January 2024 – April 2024
<ul style="list-style-type: none"><li>Conducted in-depth research on various models such as Llama 2, yolov8, docqqa, layoutlm, donut, and mistral.</li><li>Achieved a remarkable 90% increase in AI accuracy through meticulous optimization and refinement of models.</li><li>Utilized prompt engineering and fine-tuning to optimize model performance across a range of tasks.</li><li>Implemented NLP pipelines like LangChain to integrate multiple LLMs and data sources.</li><li>Collaborated within a team of 15 developers, developing a software for financial document processing utilizing AI.</li><li>Actively participated in code reviews, providing constructive feedback and collaborating with team members to maintain code quality and consistency.</li></ul>	
<b>LAHacks</b>   Hackathon	April 2023
<ul style="list-style-type: none"><li>Contributed to broadening educational access globally, empowering students and educators with a platform that transcends geographical and economic barriers.</li><li>Developed a full-stack web application using the MERN stack to create an inclusive global education platform, featuring virtual study spaces, chatrooms, and resource sharing. This project aimed to democratize education by making it accessible to users regardless of location or economic circumstances.</li></ul>	
<b>Undergraduate Research</b>   Edmonds College	January 2021 – June 2021
<ul style="list-style-type: none"><li>Presented research findings to peers and industry experts at a STEM fair, earning an undergraduate research award for the successful completion of the experiment.</li><li>Performed flight data tests using drones and developed simulation modules for radar altimeters using Arduino programming.</li><li>Utilized Arduino programming to read and process flight data from drones.</li></ul>	
<b>Secretary in Computer Science Organization</b>   Edmonds College	September 2021 – June 2021
<ul style="list-style-type: none"><li>Supported the organization's president with scheduling meetings and managing the organizational calendar.</li><li>Facilitated the completion and submission of essential paperwork for the organization.</li><li>Coordinated and organized events, including guest speaker presentations and networking opportunities.</li><li>Collaborated with the executive board to develop and implement new initiatives and programs.</li></ul>	

## PROJECTS

<b>Study Website   Full Stack</b>	October 2024
<a href="https://www.gostudypal.com/">https://www.gostudypal.com/</a>	
<ul style="list-style-type: none"><li>Developed and deployed a full-stack study helper web application using React, Tailwind CSS, Node.js, Express, and Firebase, integrating OpenAI API to generate structured notes, flashcards, and quizzes from uploaded study materials, with user authentication and a responsive, engaging UI/UX.</li><li>Implemented a content chunking and retrieval system using a vector database to store and manage extracted study content, enabling efficient retrieval and improved generation of context-aware study notes and quizzes.</li></ul>	
<b>Online Shop Website   Full Stack</b>	June 2024
<ul style="list-style-type: none"><li>Developed a full-stack online shop website using the MERN stack (MongoDB, Express.js, React.js, Node.js), allowing users to browse products, submit custom orders, and make purchases.</li><li>Designed a responsive and dynamic frontend using React.js, incorporating a seamless user interface with features such as product filtering, search functionality, and an interactive shopping cart.</li><li>Integrated a real-time database with MongoDB Atlas to store and retrieve product information.</li></ul>	
<b>LinkedIn Job Scraper</b>	March 2024
<ul style="list-style-type: none"><li>Developed a custom project utilizing various libraries and APIs to extract job postings posted on LinkedIn, integrated with an AI model for analyzing job descriptions and user resumes and outputs results of tailored job recommendations based on the user's resume.</li></ul>	

## RELEVANT COURSEWORK

<ul style="list-style-type: none"><li>Data Structures</li><li>Operating Systems</li><li>Discrete Mathematics</li><li>Computer Hardware</li></ul>	<ul style="list-style-type: none"><li>Algorithms</li><li>Game Development</li><li>Relational Algebra</li><li>User-Centered Design</li></ul>	<ul style="list-style-type: none"><li>Multimedia Data Processing</li><li>Database Systems</li><li>Information Assurance And Cybersecurity</li></ul>
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