

# Vincent Nathaniel Wirawan

Edmonds, WA | P: (206) 532-9727 | [vincentnw24@gmail.com](mailto:vincentnw24@gmail.com) | [LinkedIn](#) | [Github](#)

**Skills:** Java, C++, C#, Data Structures, Advanced Data Structures, Algorithms, object-oriented programming (OOP), ReactJS, NodeJS, ExpressJS, MongoDB, HTML/CSS, Unity, MySQL.

## EDUCATION

**Bachelor of Science in Computer Science** | University of Washington

Expected, June 2024

**Associate in Science** | Edmonds College

Spring June 2022

- GPA 3.85 / 4.0

## EXPERIENCE

**Software Engineer Internship** | PT. IndoCyber Global Teknologi

January 2024 – Present

- Worked as a part of a 15-member team to do research, develop, and deploy sophisticated software for table recognition, table detection and document visual question answering using AI.
- Conducted in-depth research on various AI models, as well as doing training, fine-tuning and testing to optimize model performance across a range of tasks.
- Achieved a remarkable 90% increase in AI accuracy through meticulous optimization and refinement of models.
- Actively participated in code reviews, providing constructive feedback and collaborating with team members to maintain code quality and consistency.

**LAHacks** | Hackathon

April 2023

- Designed/developed a full-stack website application using MERN stack.
- Developed an inclusive global education platform with virtual study spaces, chatrooms, and resource sharing to democratize education irrespective of location or economic circumstances.
- Collaborated with a team of four members to successfully implement a user authentication/authorization system using Google API during a hackathon, showcasing robust problem-solving skills and effective teamwork.

**Undergraduate Research** | Edmonds College

January 2021 – June 2021

- Conducted experiments to evaluate the impact of 5G radio waves on radar altimeter systems in airplanes.
- Performed flight data tests using drones and developed simulation modules for radar altimeters using Arduino programming.
- Utilized Arduino programming to read and process flight data from drones.
- Presented research findings to peers and industry experts at a STEM fair.
- Received undergraduate research award for successful completion of the experiment.

**Secretary in Computer Science Organization** | Edmonds College

September 2021 – June 2022

- Assisted the organization's president in scheduling meetings and managing the organization's calendar.
- Assisted with the completion and submission of the necessary paperwork for the organization.
- Coordinated and organized events, such as guest speaker presentations and networking events.
- Worked with the organization's executive board to develop and implement new initiatives and programs.

## PROJECTS

**Content Based Image Retrieval** | Frontend, Backend

November 2023

Developed and implemented a robust audio classification system utilizing Tarsos library for precise audio signal processing, resulting in a 30% improvement in accuracy compared to the existing system.

**Content Based Image Retrieval** | Frontend, Backend

October 2023

Developed a Content-Based Image Retrieval system utilizing color histograms for comparison, offering two methods (Intensity and Color-Code) to map 24-bit RGB color intensities.

**Database Web Application Development** | Backend

August 2023

Enhanced PHP client-server application hosted on UW's shared server, using a MySQL database.

Customized configuration and code to create list-based and detail reports, with filtering and hyperlink navigation. Implemented secure coding practices to prevent SQL injection attacks.

## RELEVANT COURSEWORK

- |                        |                        |                              |
|------------------------|------------------------|------------------------------|
| • Data Structures      | • Algorithms           | • Multimedia Data Processing |
| • Operating Systems    | • Game Development     | • Database Systems           |
| • Discrete Mathematics | • Relational Algebra   | • Information Assurance And  |
| • Computer Hardware    | • User-Centered Design | Cybersecurity                |