

# William Theodorus Wijaya

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## SUMMARY

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Undergraduate Computer Science students at Bina Nusantara University with strong interests in Artificial Intelligence, Data Science, and Software Engineering. Experienced as a Laboratory Assistant, teaching programming and algorithm courses, and Software Engineering Academy participant on COMPFEST 16 held by Universitas Indonesia. Actively involved in Bina Nusantara Computer Club (BNCC), with hands-on experience in full-stack development, backend architecture, and data mining. Skilled in modern technologies such as Golang, Java, React, Next.js, Node.js, Python, and AWS. Recognized for strong teamwork, problem-solving, and communication skills through teaching, research, and collaborative projects.

## EDUCATION

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**Bina Nusantara University, Bandung–Jakarta, Indonesia**  
**Bachelor's Degree, Computer Science. (GPA : 3.97/4.00)**

**September 2023 – Presents**

## WORK EXPERIENCES

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**Software Laboratory Center, Bina Nusantara University, Bandung, Indonesia**  
**Laboratory Assistant**

**February 2024 – January 2025**

- Served as a **part-time laboratory assistant** at **Binus Bandung**, teaching **Introduction to Programming with Java** (covering **basic Java programming**, **four pillars of OOP**, and **Design Pattern using Java and PHP**) and **Algorithms & Programming** to **100 students** across **Computer Science** and **Digital Business** programs.
- Designed **competitive programming problems** as weekly tasks for the **Online Judge platform**.
- Developed **final exam practicum cases** for **Introduction to Programming** and **Algorithms & Programming** courses.
- Acquired expertise in **Computational Biology**, **Scientific Computing**, **Data Mining**, **Machine Learning**, **Natural Language Processing (NLP)**, and **Deep Learning** through **post-training certification**, qualifying to teach these subjects.
- Specialized in **Web Development** using **Javascript Framework** for **Client-side programming**, and **Golang** for **Server-side programming**.

**Bina Nusantara University, Bandung, Indonesia**  
**Scholarship Mentor**

**September 2024 – January 2025**

- **Guided and supported four peers** in their studies, leading to significant improvement in their academic performance.
- **Designed and conducted engaging online class sessions**, attracting nearly **30 participants** eager to learn.
- **Delivered lessons on advanced topics**, including **Artificial Intelligence**, **Algorithm Design & Analysis**, **Computational Physics**, and **Object-Oriented Programming**, fostering a **deeper understanding and practical application** of these subjects.

**COMPFEST, Universitas Indonesia, Depok, Indonesia**  
**Software Engineer**

**August 2024 – September 2024**

- Selected as **one of 20 participants** from thousands based on the **SEA Salon** (Online Salon Appointment) project.
- Contributed as a **Frontend Developer** and **Quality Assurance engineer** to the **Seatudy** online courses platform.
- Served as **System Architect** in designing a mental health application, collaborating with cross-functional teams.
- Gained expertise in **SDLC**, **collaborative programming**, **clean code**, **unit testing**, **API development**, **design patterns**, **software architecture**, **database management**, **software security**, and **CI/CD**.
- Worked within an **Agile environment**, actively participating in sprint planning, code reviews, and daily stand-ups.

- Improved code reliability and maintainability by applying **unit and integration testing practices**.

## ORGANIZATIONAL EXPERIENCES

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### Google Developer Groups on Campus (GDGoC) BINUS @Bandung

October 2024 – Presents

#### Core Team – Pragmatic Division: AI/ML

- Served as a **Core Team Instructor**, teaching **Machine Learning** in three sessions for students from diverse academic backgrounds.
- Designed beginner-friendly **Jupyter notebooks** and teaching materials to simplify complex ML concepts and improve conceptual understanding.
- Collaborated with fellow team members to ensure smooth session delivery, content alignment, and timely coordination.

### Bina Nusantara Computer Club

December 2023 –September 2025

#### Activist and Staff

- **BNCC Elite Team:** Represented BNCC in programming competitions, serving in the Web Programming division and Data Mining division, contributing solutions to real-world problem statements under competitive settings.
- **Research and Development Staff:** Applied SDLC principles while collaborating in a team to develop software solutions. Worked with *NextJS*, *ReactJS*, *NodeJS*, *NestJS*, and *ExpressJS* to build applications addressing real-world problems.
- **Learning and Training Staff:** Organized and managed the operations of backend programming bootcamp classes, ensuring smooth learning experiences for participants
- **Speaker – TechBlast (Sep 2024):** Conducted a **Front-End Basics Workshop** for new students during BNCC’s annual TechBlast event.

### HIMTI BINUS University

May 2024 – September 2024

#### Speaker

- **Summer Class (May–Jun 2024):** Led a **Programming Logic Bootcamp** for new students, delivering foundational programming knowledge through hands-on sessions.
- **Computer Class (Sep 2024):** Delivered a **Basic Linear Algebra Workshop** for new Computer Science students at Binus Bandung, introducing essential concepts in an accessible format.

## PROFFESIONAL SKILLS

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- **Core Competencies:** Software Engineering, Artificial Intelligence, Data Science, Machine Learning, Natural Language Processing (NLP), Deep Learning, Data Mining, Computational Biology, Scientific Computing, Web Development (Frontend & Backend), Mobile Development, Software Architecture & Design Patterns.
  - **Software Skill:** Golang, JavaScript/TypeScript (Node.js, React.js, Next.js), Python (TensorFlow, Scientific Libraries), Dart (Flutter), PHP (Laravel), Kafka, Redis, RabbitMQ, Elasticsearch, SQL, Firebase, Supabase, AWS (EC2, Load Balancer, Auto Scaling), Docker, Git/GitHub, CI/CD.
  - **Soft Skills:** Communication & Public Speaking, Teamwork & Collaboration, Leadership, Problem-Solving, Critical Thinking, Creativity, Adaptability, Mentoring.
  - **Language:** Bahasa Indonesia (native proficiency), English (working proficiency).