

# Rayya Al Ghazali Efendi

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Computer Science student passionate about software engineering, with experience solving real-world problems through academic projects and collaborations. Actively involved in organizational and community activities, strengthening both technical expertise and expertise and soft skills in teamwork, communication, and problem-solving. Highly motivated to continue learning and contribute to building meaningful digital solutions.

## Education

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### Bina Nusantara University

Sept 2023 – Jul 2027 (Expected)

School of Computer Science (GPA 3.31/4.00)

## Projects

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### Smart Traffic Management System | [Link](#)

Dec 2024

- Developed a smart traffic management system using Convolutional Neural Networks (CNN) and Reinforcement Learning in a team of four.
- Enabled to detect the number of vehicles at an intersection in order to reduce congestion on one side of the lane by determining which lanes have heavier congestion and adjusts the green light accordingly.

### .NET Web | [Link](#)

Mei 2025

- Designed and implemented a Domain Driven Design (DDD) architecture using ASP.NET and SAP Crystal Reports for sales and income reporting.
- Simplified order management and enhanced customer convenience by enabling online jewelry browsing and purchasing.

### GreenLoop | [Link](#)

Jun 2025

- Developed a Progressive Web Application (PWA) using React.js and Laravel that enables users to schedule trash pickups and earn reward points redeemable for vouchers or items.
- Collaborated with a 5-person team following Agile methodology to ensure smooth integration.

## Organizational Experience

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### Bina Nusantara Computer Club (BNCC)

Sep 2024 – Sep 2025

#### Activist

- Actively participated in organizational activities and internal projects to support community development.
- Enhanced teamwork, public speaking, and problem-solving skills through collaboration with peers.

### BNCC Techno Scape 2025

Mar 2025 – Jul 2025

#### Media Partner (Staff)

- Establishing and managing partnerships with various external media to support the publication and promotion of the BNCC Techno Scape.
- Conducted outreach, negotiations, and coordination with media partners to ensure content publication aligned with the overall promotional strategy.

### BNCC Hackathon 8.0

May 2025

#### Liaison Officer (Mentor)

- Bridging communication between mentors and the BNCC organizing team during the event, ensuring that all information, schedules, and technical needs related to the mentoring process were clearly conveyed and properly managed.
- Coordinated mentor availability, provided real-time updates, and ensured each mentoring session ran smoothly and on time.

## Skills

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- Technical:** C, Python, SQL, JavaScript, React, Laravel
- Tools:** Excel, MySQL, Figma, PhotoShop, Illustrator, Notion, Visual Paradigm
- Soft Skill:** Excellent Communication, Conflict Resolution, Decision Making
- Languages:** Bahasa Indonesia (Native), English (Professional Working Proficiency)