

# Syah Rizan Nazri Muhammad

📍 [Tangerang City, Banten, Indonesia](#)

✉ [snazrimuh@gmail.com](mailto:snazrimuh@gmail.com)

☎ [+62 897 9415 320](tel:+628979415320)

🌐 [linkedin.com/in/syahrizannazri](https://www.linkedin.com/in/syahrizannazri)

📄 [github.com/snazrimuh](https://github.com/snazrimuh)

## ABOUT

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Software Engineer with a strong foundation in software development, data-driven systems, and cloud-based applications, supported by experience across backend, fullstack, and mobile projects. Experienced in developing and maintaining digital solutions across backend, mobile, and machine learning domains through academic, organizational, and industry projects. Possesses solid analytical and problem-solving skills, with the ability to adapt quickly, collaborate in cross-functional teams, and continuously learn new technologies. Highly motivated to contribute in dynamic environments and grow as a professional in technology-driven roles.

## EXPERIENCE AND TRAINING

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**Lembaga Penyelenggara Pelayanan Navigasi Penerbangan Indonesia (AirNav Indonesia)**, Tangerang, Indonesia

**Backend Developer**, *October 2025 – Present*

- Designed and implemented secure RESTful APIs for internal air navigation systems, handling authentication, validation, and efficient data processing.
- Developed and optimized backend business logic and service layers to ensure data integrity, reliability, and scalable system workflows.
- Optimized database queries, application performance, and implemented indexing strategies improving response time and overall system performance by 40%.
- Built and maintained CI/CD pipelines to automate build, testing, and deployment processes, reducing manual errors and deployment time.

**Outlier AI**, California, United States

**AI Specialist**, *October 2024 – March 2025*

- Enhanced LLM reasoning capabilities by evaluating and fine-tuning 500+ scenarios model outputs, resulting in a 15% increase in response accuracy for complex programming and mathematical tasks.
- Debugged and validated AI-generated code across multiple languages, ensuring high-quality training datasets for Large Language Models.
- Identified and mitigated model hallucinations, improving the reliability of automated data-driven features for end-users.

**AWS Back-End Academy**, Jakarta, Indonesia

**Backend Trainee**, *January 2025 – February 2025*

- Deployed scalable cloud-native applications on AWS, utilizing EC2 and Lambda to achieve a 25% improvement in resource cost-efficiency.
- Implemented Docker containerization across the development lifecycle, CI/CD pipelines using AWS CodePipeline, reducing deployment environment inconsistencies by 40%.
- Designed secure, normalized database schemas that optimized data retrieval paths for high-load backend systems.

**SYNRGY Academy presented by PT. Bank Central Asia**, Jakarta, Indonesia

**Mobile Developer Bootcamp**, *February 2024 – September 2024*

- Developed a specialized BCA Mobile app remake focusing on accessibility, achieving 100% compliance with WCAG 2.1 standards for users with disabilities.
- Improved application performance by 30% using Kotlin Coroutines and Retrofit, while applying Clean Architecture (MVVM), Dependency Injection, and building responsive UI with Jetpack Compose and Material Design 3.
- Collaborated in an Agile environment to deliver complex financial features, Integrated 30+ APIs for transaction processing and implemented secure authentication with biometric support. [\[final report\]](#)

**Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka**, Jakarta, Indonesia

**Machine Learning Cohort**, *August 2023 – January 2024*

- Completed 500+ hours of self-paced learning through 11 Coursera online courses (Python Automation, Data Analysis, Data Visualization, Mathematics for Machine Learning, TensorFlow Advanced Techniques, Structuring

ML Projects, and Generative AI), participated in more than 100+ hours of live sessions, and completed various assignments and final evaluations. [\[transcript\]](#)

- Led a Capstone Project team of 7 members from 3 learning paths (Machine Learning, Cloud Computing, and Mobile Development) to develop the final application, A Career Recommendation App, achieved a score of 92 out of 100.

## **Himpunan Mahasiswa Informatika UNS, Surakarta, Indonesia**

### **Head of Networking and Collaboration Division, February 2022 – January 2023**

- Established strategic partnerships with 30+ technology companies and educational institutions, supporting long-term industry-campus collaboration initiatives.
- Coordinated 10 large-scale collaborative events (tech talks, workshops, and company visits) involving 300+ participants, ensuring smooth execution and stakeholder engagement.
- Managed communication and coordination between the organization and external stakeholders, maintaining professional relationships and timely information exchange.

## **EDUCATION**

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**Universitas Sebelas Maret, Surakarta, Indonesia, August 2021 – July 2025**

**S1 Informatics, GPA: 3.75/4.00 (cum laude) [\[transcript\]](#)**

**Final thesis : Traffic Object Detection Using YOLOV8s with Spatial-to-Depth Convolution and Small Detection Head**

## **SELECTED PROJECTS**

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- **Backend** : Correspondence System Airnav [\[link\]](#), Event Management Airnav [\[link\]](#)
- **Fullstack Web** : Online Service System Kab. Sukoharjo [\[link\]](#), Election System UNS [\[link\]](#), Document Management Platform [\[link\]](#), Stunting Monitoring System [\[link\]](#)
- **Mobile** : BCA Revamp App [\[link\]](#)
- **Machine Learning/Deep Learning** : TransJogja Route Optimization [\[link\]](#), Career Recommendation [\[link\]](#)

## **SKILLS**

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### **Technical Skills :**

- Programming Languages: JavaScript, TypeScript, Java, PHP, Python, Kotlin, C/C++, HTML/CSS
- Frameworks & Libraries: Node.js, NestJS, Express.js, Laravel, ReactJS, Jetpack Compose, Retrofit, Tailwind CSS, Bootstrap, TensorFlow, Scikit-learn, Pandas, NumPy
- Databases: PostgreSQL, MySQL, MariaDB, MongoDB
- Tools & Platforms: Git, Postman, AWS, GCP, Firebase, Docker, CI/CD, Figma

**Languages** : English | Bahasa Indonesia

**Interests** : Travelling, Running, Watching Movie, Reading

## **CERTIFICATE**

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- **TensorFlow Developer Certificate** - TensorFlow, Google (2024 – 2027)
- **Code Generation and Optimization** - IBM SkillsBuild (2025)
- **TensorFlow: Data and Deployment** - DeepLearning.AI (2024)
- **DeepLearning.AI TensorFlow Developer Specialization** - DeepLearning.AI (2024)
- **Machine Learning** - DeepLearning.AI, Stanford University (2024)
- **Mathematics for Machine Learning and Data Science** - DeepLearning.AI (2024)
- **Cybersecurity** - Cisco Networking Academy (2024)
- **Cloud Practitioner Essentials** - Dicoding (2024)
- **CCNA: Introduction to Networks** - Cisco Networking Academy (2023)