

# CHRISTOPHER SATYA FREDELLA BALAKOSA

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I'm a 7th semester Computer Engineering student at Universitas Indonesia and passionate about developing innovative solutions in software, hardware, and cybersecurity. Over the past two years, I have developed skills in Python, Power BI, Cisco networking and more. I'm enthusiastic about gaining practical experience and expanding my skills in these fields.

## Education Level

University of Indonesia - Depok, Jawa Barat

Jul 2022 - Sep 2026 (Expected)

Bachelor of Computer Engineering, 3.52/4.00

- Successfully completed the Cisco Certified Network Associate (CCNAv7) program, which encompassed rigorous courses such as 'Introduction to Networks,' 'Switching, Routing, and Wireless Essentials,' and 'Enterprise Networking, Security, and Automation.
- Project JBus (Android Developer): Led the development of a bus ticketing system for Android using Java and Android Studio. Demonstrated expertise in mobile app development, emphasizing a user-friendly interface and efficient booking system.
- Project Aerolyze (IoT Developer): A real-time hazardous gas detection system with MQ-2 sensor and WhatsApp notification using bot. Developed using ESP32 and MQ-2 with C++
- Project Automatic Plant Watering System (IoT Developer): An automatic plant watering system. Developed using Arduino ATmega328p and a moisture sensor, showcasing a proficiency in assembly language programming for optimal performance.
- Project Track-It (Backend Developer): Executed the role of Backend Developer for Track-It, a gamified To-Do list website. Utilized NoSQL database, Node.js framework and MongoDB for efficient database management, ensuring seamless backend operations.
- Project UIStride (Android Developer): Executed the role of UI/UX designer and creating backend logic. Integrating the features such as distance, step counting, rewards, and maps.
- Project Website Security Implementation (CyberSecurity) : Contributed to a secure website development project by implementing cybersecurity tools such as OWASP ZAP, Snort, and LOIC. Emphasized commitment to cybersecurity best practices and robust measures for web application protection.

## Work Experiences

PT Indocyber Global Teknologi - Jakarta Barat, Jawa Barat

Jun 2025 - Present

Data Engineer

An integrated information and technology system provider, dedicated to delivering highly effective solutions in the field of Information Systems.

- Develop and maintain distributed data processing pipelines using PySpark (DataFrames, Spark SQL)
- Perform complex data transformations, aggregations, and cleansing from multiple sources (PostgreSQL, APIs, flat files)
- Write optimized SQL queries for analytics and reporting
- Collaborate with cross-functional teams to translate business needs into scalable data workflows

Fakultas Teknik UI - Depok, Jawa Barat

Sep 2024 - Dec 2024

Assistant Lecturer of Computational Thinking

- Teaching second-year and third-year students fundamental concepts of computational thinking, including problem-solving strategies, algorithm design, and logical reasoning.
- Assisting in evaluating students assignments and providing feedback to enhance their understanding and academic growth.

## Organizational Experience

Keluarga Mahasiswa Katolik Fakultas Teknik UI (KMK FTUI)

Jan 2024 - Jan 2025

Vice President

KMK Teknik UI is a Catholic fellowship/organization operating as one of the religion-governing student body in Universitas Indonesia's Faculty of Engineering. It is established in 1994 with the aim to develop comradery within its' members, as well as accommodating and supporting members in developing their skill and self-potential.

- Leading 20 members of Executive Board & Expert Staff, and 26 staff members across various divisions.
- Successfully running 30 work programs and 16 activities related to self development, spiritual growth, and community building within 11 month of leadership.
- Maintaining external relations with stakeholders such as FTUI Deanery, MPM FTUI, BEM FTUI, KMK UI, and others.

Masa Bimbingan FTUI (MABIM FTUI)

Mar 2024 - Nov 2024

Steering Comitee

Masa Bimbingan FTUI is a forum for student self-development. Its purpose is to increase konwledge, experience, and expand student relations through instilling values from the IKM FTUI.

- Successfully coordinated between MABIM KMK FTUI and MABIM Pusat.
- Led a team of 30 members alongside Project Officer in event preparation, task delegation, and timeline management.

**Institute of Electrical and Electronics Engineers Student Branch Universitas Indonesia (IEEE SBUI)**

Mar 2023 - Feb 2024

*Staff of Seminar*

A student chapter of IEEE at Universitas Indonesia, offering a platform for technical and professional development, networking, and contributing to advancements in engineering and technology.

- Planning and arranging 3 online seminars about (Data Science, IoT, and Machine Learning)(innovation seminars and webinar series), with an average of 100++ attendees, with high satisfactory level in every seminar.
- Served as a moderator and master of ceremonies (MC) for IEEE events, facilitating discussions and ensuring smooth event execution.

**Weekend KMK FTUI 2023**

Jul 2023 - Sep 2023

*Vice Project Officer*

Weekend KMK Teknik is an annual event organized by KMK Teknik UI. This event aims to welcome new Catholic students of the Faculty of Engineering, Universitas Indonesia, and introduce them to the larger KMK Teknik UI family, including active students and alumni.

- Successfully organized an event attended by 103 participants, ensuring smooth execution and positive participant engagement.
- Supported the Project Officer in event planning by overseeing logistic, task delegation, and resource management to ensure optimal efficiency.

## Skills, Achievements & Other Experience

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- **Modules Taken** 📄 (2024): CCNAv7: Switching, Routing, and Wireless Essentials
- **Modules Taken** 📄 (2024): CCNAv7: Enterprise Networking, Security, and Automation
- **Modules Taken** 📄 (2024): CCNAv7: Introduction to Networks
- **Webinars Attended** 📄 (2024): Datacenter Awareness
- **Webinars Attended** 📄 (2024): Datathon 2024
- **Webinars Attended** 📄 (2022): Technoskill 2.0 Arduino Line Follower
- **Hard Skills:** Programming C, C++, SQL, NoSQL, Java, Javascript, Python, Power BI, Network Administration, and Cyber Security
- **Soft Skills:** Public Speaking, Problem Solving, Leadership, Teamwork, and Fast Learner
- **Achievements** (2025): 1st Place Winner at Project Management Challenge 2025 by Project Management Institute Indonesia