ERIQO ARIEF WICAKSONO

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Passionate and dedicated Computer Engineering student in my 7th semester at the University of Indonesia, with hands-on experience in software development, computer networks, and artificial intelligence. Skilled in full-stack development, mobile applications, and AI, including developing a face recognition API using Python and FastAPI. Successfully implemented solutions in web and mobile development, leveraging technologies like Java, Spring Boot, Next.js, and React Native. Currently seeking an Internship to apply my knowledge and contribute to impactful projects while expanding my expertise.

Education

Universitas Indonesia - Depok, Indonesia
Undergraduate Computer Engineering, 3.90/4.00

Jun 2021 - Jul 2025 (Expected)

SMAN 3 Depok - Depok, Indonesia
High School Diploma in Science

Jun 2018 - Jun 2021

Work Experience

NTUST Broadband Multimedia Wireless (BMW) Lab - Taipei, Taiwan

Jun 2024 - Aug 2024

Research Intern

- Successfully designed and implemented a Man-in-the-Middle (MiTM) attack on 5G fronthaul architecture, utilizing kernel-based tool such as DPDK, and security tools such as Wireshark, and Scapy.
- Analyzed the results to assess vulnerabilities, providing key insights for improving security protocols in 5G networks.

PT XL Axiata Tbk. - Jakarta, Indonesia

Feb 2024 - Jun 2024

IT Infrastructure & Design Intern

- Collaborated with senior IT professionals to analyze existing infrastructure and propose enhancements, demonstrating strong problem-solving and critical thinking skills in identifying opportunities for optimization.
- Successfully managed data center cost reduction initiatives and worked with enterprise network devices, such as proxies and firewalls, to improve network security and efficiency.

Network Laboratory DTE FTUI - Depok, Indonesia

Aug 2023 - Present

Laboratory Asisstant

- Instructed 90+ students pursuing majors related to computer networks, covering subjects like fundamental computer networking, object-oriented programming, database architecture, and computer network design.
- Responsible for developing modules for practical sessions in Computer Networking and Object-Oriented Programming classes.
- Provided support to the lecturer in guiding and evaluating students within the computer engineering major.

BRIN - National Research and Innovation Agency - Tangerang, Indonesia

Oct 2023 - Dec 2023

Frontend Developer Intern

- Worked as a front-end developer, actively contributing to the development of an intuitive admin dashboard for the Charging Station Management System, featuring interactive graphs using the Next.js framework.
- Responsible for the integration of the Open Charge Point Protocol (OCPP) backend into the frontend application. To ensures a responsive connection between the charging station infrastructure and the user-facing interface.

Organisational Experience

EXERCISE FTUI

Feb 2022 - Feb 2024

Expert Staff of Software

EXERCISE provides a forum for students in the Department of Electrical Engineering to learn about how professional companies work to achieve targets on similar project categories developed by this organization.

- Responsible for the development and implementation of the organization's website, Utilizing primarily React JS and Tailwind CSS to create a dynamic and responsive website.
- Led meetings, established project timelines, and created project plans to ensure that all goals and objectives were met.
- I have demonstrated proficiency in designing databases, writing server-side scripts, and developing APIs, Utilizing MongoDB and Express JS to establish a robust backend infrastructure.

Racing Plane TRUI

Mar 2022 - Nov 2023

Head of Programming Division

- Contributed to the construction of a plane for the National Flying Robots Contest, ensuring the seamless functionality of the control system.
- Actively participated in team meetings to discuss the design and technical specifications of the next-generation plane, emphasizing parameters essential for achieving smooth and optimal flight performance.

Skills, Achievements & Other Experience

- **Technical**: Python, C, Java, JavaScript, TypeScript, React, Next.js, NodeJS, Express, Go, PostgreSQL, Mongo DB.
- **Language**: English (TOEFL ITP: 593/677).
- **Interests**: Computer Networks, Database Systems, Data Analysis, Web Development, AI, 5G, Wireless Networks.
- **Competition:** (2022): IEEEXtreme 16.0 Global Rank: 967 out of 2992 teams.
- **Projects** ⊘ (2023): ExerSpace : URL shortener website designed to streamline and enhance user's experience. Utilizing React and Node.js [Team]
- **Projects** ⊘ (2023): RSCM App : Python GUI Application to display nine sensors interfacing with Arduino, to measures spatial distances for medical research, particularly enhancing precision in cancer therapy. [Team]
- **Projects** ⊘ (2023): ScoreGuessr : A Football Scores Guessing App based on Android Java, with Express JS as the Backend along with PostgreSQL for database. [Individual]
- **Certificates** ⊘ (2023): CCNA: Switching, Routing, and Wireless Essentials
- **Certificates** ⊘ (2023): CCNA: Enterprise Networking, Security, and Automation
- **Certificates** ⊘ (2024): Fortinet Certified Fundamentals Cybersecurity
- **Projects** ⊘ (2024): Lab Karsa Buana: Developed a web application for Karsa Buana lab to streamline testing and sampling workflows for water, soil, and waste samples. I handled the backend, creating APIs for tasks like project initialization, which automated folder creation in Google Drive and pre-populated data in documents. Technologies used included Express JS, Google Sheets API, and Mongo DB. [Team]
- **Projects** (2024): PollPal: Developed a blockchain-based e-voting platform with IoT security features, a real-time live polling dashboard, and facial recognition for user authentication. Technologies used included Python, FastAPI, JavaScript, and Next.js. [Team]