David Christian Nathaniel

Full Stack Developer | Blockchain Enthusiast | Blue Team Cybersecurity Learner
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SUMMARY

Third-year Informatics Engineering student specializing in Computer Networks, with a strong focus on blockchain development, full-stack web applications, and Blue Team cybersecurity principles. Skilled in designing, building, and deploying scalable systems from concept to implementation. Experienced as a Project Officer and Teaching Assistant, demonstrating leadership, team coordination, and communication across diverse technical and organizational settings. Passionate about developing secure, efficient, and innovative solutions that combine technology with human-centered impact.

EDUCATION

Universitas Padjadjaran, Sumedang

Bachelor of Informatics Engineering – GPA: 3.85 / 4.00 (2023 – Present)

WORK EXPERIENCE

Product Management Specialist

PT Makmur Teknik | Part-Time | Jakarta – Remote | Apr 2025 – Aug 2025

- Managed and optimized over 500 product listings for an e-commerce platform to enhance visibility and conversion.
- Designed pricing, positioning, and bundling strategies based on competitor data.
- Collaborated across marketing, warehouse, and operations teams to ensure product readiness and delivery efficiency.
- Built monthly data dashboards for sales performance analysis and strategic reporting.

Teaching Assistant – Informatics Department, FMIPA Unpad

Universitas Padjadjaran | Part-Time | Jatinangor – On-site | Feb 2025 – Present

- Conducted lab sessions for Data Structures, Numerical Methods, and Database Systems 2.
- Developed lab modules, evaluation materials, and auto-grading systems.
- Guided students through algorithm design and data processing using C++, Python, and SQL.
- Mentored over 90 students weekly, fostering analytical and technical growth.

PROJECTS

Hukumpedia – RAG-Powered Legal Chatbot Platform | Full-Stack Developer

- Developed an AI-powered chatbot using Retrieval-Augmented Generation (RAG) to provide legal insights from Indonesian law databases.
- Implemented full-stack architecture integrating Next.js, Node.js, and Pinecone vector search for efficient retrieval.

Tech Stack: Next.js, Node.js, MySQL, Gemini API, Pinecone Vector Database

SenggolBacok – Gym Membership Website | Front-End Developer

- Developed a digital platform for gym membership registration, class scheduling, community dashboard, and online payment integration.
- Improved membership management and engagement efficiency through centralized digital tools.

Tech Stack: CodeIgniter 4, PHP, MySQL, JavaScript

LaundryHub – Laundry Management System | Desktop App Developer

- Built a desktop application to manage laundry orders, transaction records, and financial reporting.
- Enabled faster transaction processing and order tracking for local laundry businesses.

Tech Stack: Java (Swing), MySQL

Ngurah Rai Airport Network Redesign | Network Engineer (Simulation)

- Redesigned the network topology to increase efficiency and reliability through VLAN segmentation and redundancy.
- Optimized routing configuration to ensure stable and secure data communication.

Tech Stack: Cisco Packet Tracer

Student Well-Being Clustering – Flask-Based Analytical Dashboard | Full-Stack Developer

- Created a Flask-based dashboard to analyze student well-being using K-Means and DBSCAN clustering algorithms.
- Visualized clustering results to help lecturers monitor stress levels and identify risk groups among students.

Tech Stack: Python (Flask, Pandas, Scikit-Learn), MySQL, HTML, CSS

ORGANIZATIONS & COMMITTEES

Himatif FMIPA UNPAD

- Staff of Student Development Division (Feb 2024 – Dec 2024)
- Staff of Entrepreneurship Division (Feb 2025 – Dec 2025)

Informatics Sport and Art Tournament 2025 • Himatif FMIPA UNPAD – Project Officer

- Led the planning and execution of a university-wide sports and arts event with 120+ participants.
- Managed logistics, budgeting, sponsorships, and inter-department coordination.

SKILLS

Programming: Python • C++ • PHP • JavaScript • SQL

Frameworks: Flask • Next.js • Node.js • CodeIgniter • React.js • Express.js

Blockchain Development: Solidity • Web3.js • Ethers.js • Truffle • Hardhat • Smart Contract Design (ERC-20 / ERC-721) • Ethereum Network Deployment

Cybersecurity (Blue Team): Network Defense Fundamentals • Threat Detection • Log Analysis • SIEM Tools (Splunk, Wireshark) • Incident Response Basics

Tools: Git • MySQL Workbench • Figma • VS Code • Metamask • Remix IDE

Soft Skills: Leadership • Collaboration • Problem Solving • Time Management • Adaptability • Creativity

CERTIFICATIONS & LANGUAGES

- iOS Foundation Program, BINUS University x Apple (2023)
- English Language Test, Universitas Padjadjaran (Valid until 2026)
- Business Case Competition Semifinalist, 180 Degrees Consulting (2024)

Languages:

- English – Advanced
- Indonesian – Native