

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: 3.86 / 4.00 (2023 – Present)

WORK EXPERIENCE

Product Management Specialist

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

- Optimized 500+ e-commerce product listings to improve visibility and conversion.
- Designed pricing, positioning, and bundling strategies based on competitor analysis.
- Built sales performance dashboards and collaborated cross-functionally to support product readiness.

Teaching Assistant – Informatics Department, FMIPA Unpad

Universitas Padjadjaran | Part-Time | Jatinangor – On-site | *Feb 2025 – Jan 2026*

- Conducted lab sessions for Data Structures, Numerical Methods, and Database Systems.
- Developed lab modules, evaluation materials, and auto-grading systems.
- Guided students in algorithm design and data processing using C++, Python, and SQL.

Intern – Software / IT Engineering

Estima Industry | Internship | *Jan 2026 - Feb 2026*

- Assisted in developing an internal web-based sales management system across multiple departments.
- Supported system analysis, database design, and documentation based on business requirements.
- Contributed to feature testing and data validation to improve transaction tracking accuracy.

Product Designer

PT Makmur Teknik | Part-Time | Remote | *Jan 2026 - Present*

- Designed and optimized e-commerce product visuals and layouts to strengthen brand consistency and conversion.
- Aligned design decisions with pricing, positioning, and target customer segments.
- Collaborated with product and marketing teams to iterate designs based on performance data.

PROJECTS

DeQRypt | Blockchain Developer - Hackathon Team Project

Dec 2025 - Jan 2026

- Designed and implemented a blockchain-based transaction flow involving user wallets, treasury management, and merchant settlement using smart contracts.
- Collaborated in a fast-paced team environment to deliver a secure, transparent, and scalable Web3 solution within strict time constraints.

Tech Stack: Solidity, Ethereum, EVM, Web3, MetaMask

Decentralized Crowdfunding (Campaign DApp) | Blockchain Developer

Dec 2025 - Present

- Developed a decentralized crowdfunding platform on Ethereum using smart contracts with a factory pattern to deploy and manage multiple campaign contracts on-chain.
- Implemented contributor-based voting for spending requests, ensuring transparent fund release and fully on-chain, trustless governance without a centralized backend.

Tech Stack: Solidity, Ethereum, EVM, Remix, Smart Contracts

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

Sept 2025 - Dec 2025

- 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

Aug 2024 - Nov 2024

- 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

Aug 2024 - Nov 2024

- 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

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

Sept 2025 - Oct 2025

- 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