

BAYU PRATAMA PUTRA

INFORMATICS ENGINEERING (BSc)

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SUMMARY

Final-year Informatics Engineering student at Widyatama University, Bandung, specializing in Interfacing Systems. Experienced in developing Artificial Intelligence (AI) and intelligent systems, with a strong focus on integrating technology into embedded systems and applying machine learning to real-world applications. Successfully completed the Machine Learning program from Dicoding Coding Camp Powered by DBS Foundation. Actively engaged in student organizations and campus activities, with proven abilities in teamwork, leadership, and effective communication. Highly motivated to contribute technical expertise and continuously enhance professional skills in a dynamic and innovative environment.

WORK EXPERIENCES

Staff - Product Planning and Control

October 2021 - July 2022

PT. Daese Garmin

- Managed incoming order data using Microsoft Excel for production planning and tracking purposes.
- Designed embroidery patterns and generated detailed order sheets to support the production process.
- Printed and organized production documents to ensure accuracy and completeness of information.
- Prepared production baskets containing order sheets and customer data for the cutting section.
- Coordinated intensively with the production team to ensure smooth workflow and timely order fulfillment.

Internship – Computer Laboratory Technician

October 2020 - November 2020

STMIK AMIK Bandung

- Assisted in the installation and configuration of local area networks (LAN) for the computer laboratory.
- Performed routine maintenance on PC desktops, including hardware diagnostics and troubleshooting.
- Installed operating systems and configured software to ensure optimal functionality of computer labs.
- Supported daily technical operations and collaborated with IT staff to maintain system efficiency and reliability.

PENDIDIKAN

Bachelor of Informatics Engineering (BSc)

August 2022 - Present

Widyatama University

- GPA : 3.76/4.00
- Concentration in Interfacing Systems

Software Engineering (Vocational High School)

July 2018 - June 2021

SMK Setia Bhakti Bandung

PELATIHAN & SERTIFIKASI

Peserta Coding Camp powered by DBS Foundation - Machine Learning

February 2025 - July 2025

Dicoding

- Completed a 900-hour intensive program covering self-learning, live sessions with industry practitioners, and mentorship.
- Gained technical expertise as a Machine Learning Engineer, including proficiency in Python, ML algorithms, and libraries such as TensorFlow, Scikit-learn, Pandas, and NumPy.
- Completed a Capstone Project focused on solving real-world problems using machine learning technologies.
- Enhanced soft skills including growth mindset, effective communication, and personal productivity.
- Attended sessions in English (conversation & business presentation) and financial literacy (fundamental finance, resilience, and wealth management).

Peserta Bootcamp: Studi Kasus Aplikasi Split Bill dengan React.js

November 2024 - August 2025

CODEPOLITAN

- Engaged in a project-based course to build a Split Bill application using React.js.
- Studied web development fundamentals: HTML, CSS, and CSS Framework (Bootstrap 5).
- Mastered JavaScript fundamentals, including DOM manipulation, asynchronous concepts (AJAX and Web API), and object-oriented programming (OOP).
- Gained in-depth understanding of React.js, including state management, components, and data handling.
- Developed an application with React.js to apply and demonstrate learned concepts.

Alibaba Cloud Certification

August 2024

Alibaba Cloud

- Successfully developed and deployed applications using Alibaba Cloud services.
- Demonstrated skills in application development, deployment, and management of scalable cloud-based solutions.

Cisco Networking Academy Networking Essentials

July 2024

Cisco Networking Academy

- Learned the fundamentals of computer networks and internet connectivity requirements.
- Built simple home and small office networks and understood standard communication protocols.
- Explained the operation of Ethernet, DHCP, and IPv4/IPv6 management.
- Configured network devices and client devices for secure connections to the internet.
- Connected PC clients to wireless networks and applied cybersecurity best practices to prevent online threats.
- Managed Cisco IOS devices and applied network administration to improve performance and security.

ORGANIZATIONAL EXPERIENCE

Head of Sports Department

August 2024 - July 2025

Student Executive Board, Widyatama University

Staff of Student Welfare Department

August 2023 - May 2024

Informatics Engineering Student Association, Widyatama University

Volunteer – Indonesian Idol Committee 2024

September 2024

Widyatama University

Vice Head of Event Committee Widyatama Informatics Festival 2024	June 2024
Event Division Member Abdi Utama 2024	June 2024
Event Division Member Informatics Olympiade Competition	June 2024
Logistics and Consumption Division Member WINACTION 2024	May 2024
Vice Head of Logistics and Consumption Division Utama Sport Competition 2024	February 2024 - March 2024
Vice Head of Logistics and Consumption Division TECHNO 2023	Desember 2023
Logistics and Consumption Division Member Widyatama University Orientation Program 2023	August 2023 - September 2023
Logistics and Consumption Division Member WINACTION 2023	July 2023

SKILLS

Technical Skills

- Programming Languages: Python, JavaScript, PHP, Kotlin, C#, Java, HTML, CSS
- Frameworks & Libraries: TensorFlow, Keras, Scikit-learn, NumPy, Pandas, React.js, Bootstrap 5
- Machine Learning & AI: Experienced in model training, evaluation, and data analysis; strong understanding of intelligent systems and automation.
- Embedded Systems: Skilled in designing and programming embedded systems, including microcontrollers and interfacing devices (Arduino, Raspberry Pi).
- Tools & Technologies: MySQL, Git, Cisco Packet Tracer, REST API
- Productivity Tools: Proficient in Microsoft Excel, Word, and PowerPoint for documentation, data analysis, and presentations.

Soft Skills

- Strong teamwork skills with proven experience in group-based projects.
- Effective communicator, both verbal and written.
- Demonstrated leadership through active participation in student organizations and event management.
- Highly motivated, adaptable, and quick to learn new concepts in dynamic environments.

Languages

- Indonesian: Native proficiency
- English: Good reading and listening comprehension; basic speaking skills (actively improving)

PROJECTS

Skinaria - Web Based Skin Disease Detection

June 2025

CNN, Tensor Flow, Keras, Flgma, Vue JS, Vite, PostgreSQL

- Developed a web-based application to detect skin diseases using a machine learning model based on Sequential Layer CNN.
- Trained the model in Google Colab using TensorFlow and Keras with a skin image dataset and deployed it successfully.
- Provided a responsive and user-friendly interface using Vue.js and Vite.
- Utilized PostgreSQL as the database and managed backend operations via Visual Studio Code.
- Presented real-time classification results with confidence scores, accompanied by visual information on detected skin conditions.

Pocle - Cycling Tracking Application

May 2025

Android Native, Firebase, Google Maps API

- Developed a mobile app for Android to track cycling activities in real time with a modular and scalable approach.
- Implemented Firebase Authentication for secure login and Firebase Realtime Database for session storage.
- Integrated Google Maps API to display routes and track user positions dynamically.
- Provided metrics on distance, speed, duration, and history of cycling sessions with a minimal user interface using Java and Kotlin.
- Added a health content module to display data on cycling, fitness, and recovery via a JSON-based backend.

Smart Home System – IoT Automation

Desember 2024

ESP32, Node-RED, MQTT, Arduino IDE

- Developed an IoT-based Smart Home system to remotely control home devices via a WiFi network.
- Enabled real-time room temperature monitoring and automatic fan activation when a threshold is reached.
- Provided manual controls and configurable lighting settings according to user preferences.
- Used ESP32 microcontroller with Node-RED and MQTT protocol for communication.

Velotto AutoRent – Car Rental Website

January 2024

HTML, CSS, Bootstrap, JavaScript, PHP, MySQL, Laravel

- Developed a web-based car rental platform as part of coursework.
- Provided vehicle search, online booking, and rental management functionality.
- Focused on navigation ease and user experience.

Smart Door Lock System – RFID Access Control

May 2023

Arduino Uno R3, Arduino IDE, RFID Reader, Servo Motor, LED

- Designed an automatic door lock system using RFID cards for university students.
- Controlled servo motors to unlock doors for registered cards and deny access for unregistered cards, with LED indicators for valid/invalid access.
- Integrated sensors and actuators using Arduino IDE for a simple home security system.