GUNTUR AWALUDIN SAPTADI

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Skills

- Project Management (Trello, Agile Scrum, Microsoft Project)
- Industrial Process Optimization (Lean Manufacturing, Six Sigma)
- Machine Learning with PyTorch, Cloud Computing (Microsoft Azure)
- Database Management (SQL Server, PostgreSQL)

Professional Sertification

- HCIA Huawei Certified – AI (2023)
- HCIA Huawei Certified – DATACOM (2023)

Training Sertification

- Coursera : Foundations Data, Data Everywhere (2023)
- Coursera : Using Python to Interact with the Operating (2023)
- PCAP - Programming Essentials in Python by Cisco Networking Academy® in collaboration with OpenEDG Python Institute (2023)
- Basic Cyber Security Sertification Microsoft and Ministry of Communication and Informatics (2022)
- Business Intelligence Data Mining Udemy (2021)
- Introduction to Cyber Security Certified by Cisco Networking Academy (2021)
- Advanced Java Programming Udemy (2021)
- Fundamental of HTML & CSS Progate (2021)
- Nuclear Science and Technology and Nuclear Power Plants Institut Teknologi Bandung (2020)

Educational Background

Electrical Engineering

(Diponegoro University, 2020 – 2024)

- GPA: 3.62, specializing in Information Technology
- Focus on IT development, Machine Learning, and Artificial Intelligence

Work Experience

Backend Developer at HCIS PT Telkom Indonesia (5 Month)

- Enhanced API routing efficiency using Express.JS, reducing application response time by 15 ms.
- Implemented JSON Web Token (JWT) user authentication, reducing security risks and eliminating 90% of fraudulent authentication attempts.
- Successfully migrated the LaporAja application from .NET to Express.JS, improving response speed by 35%.
- Developed PDF templates for form submissions, reducing processing time by 20%.
- Contributed to the growth of PT Telkom Indonesia's digital initiatives, achieving a 40% improvement in backend development efficiency.

Organization Experience

- Head of Divisions – Research and Technology Department, Student Executive Board, Engineering (2022 – 2023)
  Led a team of researchers, managing projects with a budget of IDR 50 million. Developed strategic research initiatives to promote innovation.
- Research Staff – IEEE Student Branch, UNDIP (2021 – 2022)
  Contributed to multiple research projects, focusing on innovative engineering solutions in line with IEEE's mission.
- Programming Division Member – Jentayu Virtual Take Off Landing URDC (KRTI) (2020 – 2023)
  Participated in the development of autonomous drone systems, contributing to technical solutions for national competitions.

Project Experiences

- Automated Guided Vehicle with Navigation based on Indoor Positioning System and Artificial Intelligence Algorithm
- Improved Non-Isothermal Simultaneous Saccharification and Fermentation (SSF) Conversion for Producing Bioethanol from Sugarcane Bagasse through Temperature Control Cycling and Profiling Based on Internet of Things.
- Bio Cell : Contaminated Water Treatment from Metal Vehicle Battery Electric Waste Using Process Bioleaching with Bacteria Arthrobacter Nicotianase and Brevibacterium Helovolum based on Internet of Things
- EDULearn : Web-based and mobile innovations for helping Exceptional Children to support the 2030 SDGs
- Volunty : The Art of Sharing and Caring
- PAHAMPOLY : Educational Props for Junior High School
- Street Lighting Installation Using Biogas Power with Gas Source Generator Modification Using Deep Learning Methods

Awards & Achievements

- Best Presenter at IC3NA 2024 International Conference at Badan Riset Inovasi Nasional (BRIN)
- Best Young Inventor Champion Excellence Award at World Young Inventor Exhibition 2024
- Gold Medalist at World Young Inventors Exhibition (WYIE), ITEX 2024
- IYSA Grand Prize Award at World Invention Competition Exhibition 2024
- Malaysia Young Scientist Organization Special Award 2024
- Gold Medal Award at World Invention Competition Exhibition 2024
- Best Project at Industry, Innovation and Infrastructure Category at IYS 2023
- Best Project Award at Shell Nxplorers Competition 2023 by Shell Indonesia
- Indonesia Delegates for International Conference at IYS 2023, Istanbul Turkiye
- The Most Outstanding student from Electrical Engineering Department 2023
- Top 5 Outstanding student from Faculty of Engineering 2023
- Silver Medalist – Tanoto Student Research Award 2022 By Institut Teknologi Bandung
- 1st Winner at environtment category in Scientific Paper Competition by Pertamina University
- Fully Funded Research Project at Shell NXplorers Competition 2022 by Shell Indonesia
- Silver Medalist – IIIEX Competition at POLINES, Semarang 2022

International Conference

11th International Conference on Computer, Control, Informatics and its Applications(IC3INA) 2024

- Presented a research paper titled 'Design of Smart Microgrid as an Integration of Electrical Systems with Android Application' at IC3INA 2024, organized by the National Research and Innovation Agency (BRIN). The paper is set to be published in IEEE and indexed by Scopus

Volunteer Projects

Development of a Digital Village based on Innovation and Technology in Omah Ampiran, Wonolopo Village, Semarang with Future Skills and PT CitiAsia Inc organized by UGM 2022

- Implemented sustainable IT development initiatives in Wonolopo Village, resulting in ongoing progress and adaptability to rapid technological advancements.
- Established agreements for tangible community benefits, positively impacting 80% of Wonolopo Village residents.
- Conducted regular assessments, leading to 10 documented alterations for sustained project success.

Bootcamp Experience

- **Bangkit Academy Led By Google Tokopedia Gojek & Traveloka – Machine Learning Path (2023)**
  - **Capstone Project : NUTRIFACTS (Mobile apps Food Health Classification)**
    Link : https://bit.ly/NutrifactsProjects_Guntur
    - NUTRIFACTS app facilitates convenient health assessment of food and drinks through barcode scanning.
    - The app encourages a healthier lifestyle by providing transparent and easily accessible information about consumed products.
- **SYNRGY ACADEMY BY PT Bank Central Asia Tbk – Fullstack Developer Path (2023)**
  - **Capstone Project : KABOOR E-Flight Apps**
    Link : bit.ly/Kaboor_Apps_Project
    - Kaboor Apps focuses on Fullstack Engineering with a primary emphasis on Android development.
    - The comprehensive airline ticket reservation application ensures a robust system, covering both front-end and back-end aspects.

Speaker Experience

- FST Academic Super Training : Understanding Research Pillars to Unlock Research Potential.
- Sustainable Development Goals Topics for Industry Innovation and Infrastructure at International Conference Istanbul, Turkiye
- English Webinar : English for Preparing Indonesia International Student Mobility Award Scholarship
- Electrical Funding Research : Navigating a Motivational Journey Towards World Class University Research Funding
- Kawan Mawapres : The preparation for participating in the Outstanding Student Selection (Pemilihan Mahasiswa Berprestasi) program

Language Skills

- **Indonesia (Native Language)**
- **English (Professional Working Proficiency)**
  - Duolingo English Test 135/160 (April 2022)
  - TOEFL ITP 565, Test administered by Service English Unit UNDIP