Contact

www.linkedin.com/in/
danielwidhiarto (LinkedIn)

Top Skills

Role-Based Access Control (RBAC)

Vue.js

Spring Boot

Languages

English (Professional Working)

Indonesian (Native or Bilingual)

Certifications

Belajar Membuat Aplikasi Android
untuk Pemula

Memulai Dasar Pemrograman untuk
Menjadi Pengembang Software

Belajar Dasar Manajemen Proyek

Memulai Pemrograman dengan
Kotlin

PesonaEdu Desain Graphic and
Web Design Course

Emmanuel Daniel W.

Lecturer Specialist S1 at BINUS University
Bogor, West Java, Indonesia

Summary

I am a Business Information Technology student with a strong focus on Mobile Development, Front-End, and Back-End technologies, complemented by skills in Data Analysis and Machine Learning. Currently, I work as a Software Laboratory Assistant at BINUS University, where I teach and mentor students in programming and technical concepts, achieving a 95% satisfaction rate based on student feedback.

My technical background spans building mobile apps, designing front-end interfaces, developing back-end systems, and analyzing data to uncover insights. Recently, in the Bangkit Academy Machine Learning Cohort (a Google-led program), I gained hands-on experience in TensorFlow, deep learning, and data analysis, applying these skills to real-world projects with measurable impact.

Key Skills:
Mobile Development: Skilled in Kotlin and Android app development, with experience in integrating Firebase for mobile solutions.
Front-End: Proficient in HTML, CSS, JavaScript, and frameworks like React (TypeScript).
Back-End: Experienced in developing back-end systems using Go and Java, with a strong foundation in database management (MySQL).
Data Analysis: Proficient in data analysis techniques and tools, with experience using Python and SQL to derive insights from data.
Machine Learning: Hands-on experience with TensorFlow, focusing on neural networks (ANN, CNN) and generative AI.

I'm passionate about using technology and data to solve real-world problems and am eager to contribute my skills in mobile development, web technologies, and data analysis to a dynamic, innovative team. I look forward to connecting with other tech professionals and exploring new opportunities in the tech and finance sectors.

Experience

BINUS University
3 years 8 months

Lecturer Specialist S1
September 2025 - Present (1 month)
Jakarta, Indonesia

Junior Laboratory Assistant
March 2023 - August 2025 (2 years 6 months)
Bekasi, West Java, Indonesia

Teaching & Mentoring: Delivered instruction and mentorship to over 200 students in foundational and advanced courses, including Intro to Programming in C, Java, Python, Web Development, Mobile Development, Network, and Object Oriented Programming Achieved a 95% student satisfaction rate in feedback questionnaires, reflecting high levels of engagement and understanding.

Assessment Development: Designed and developed quizzes, exams, and project cases, ensuring alignment with course standards. These assessments contributed to a 15% improvement in average student scores, enhancing learning outcomes and comprehension.

New Assistant Training: Led training sessions for New Assistant Requirements (NAR), conducting pre-training, presentations, and interviews. Oversaw candidate evaluations and provided feedback, achieving an 85% pass rate among new assistants.

Content Creation: Developed video-based learning resources in response to student preferences for more dynamic learning tools. These resources increased engagement by 25% and provided students with accessible, effective supplementary learning materials.

Technical Support: Provided technical support for laboratory PCs, troubleshooting and resolving hardware and software issues to ensure smooth operation during class sessions. Maintained system readiness, minimizing downtime and enhancing the learning environment.

Scholarship Mentor
February 2023 - July 2023 (6 months)

Provided tailored mentoring and academic support to students struggling with academic goals, resulting in a 20% increase in pass rates among mentees.

Monitored student progress and provided structured feedback, fostering a supportive learning environment that enhanced student confidence and led to measurable improvement in coursework performance.

Developed and customized instructional content based on individual learning needs, significantly improving students' comprehension and grades in challenging subjects, with over 90% of mentees achieving academic milestones.

Laboratory Assistant
February 2022 - February 2023 (1 year 1 month)
Bekasi, West Java, Indonesia

Teaching & Course Assistance: Provided part-time instructional support in courses like Introduction to Programming (Java) and Algorithms (C). Assisted in improving student comprehension through hands-on exercises and interactive sessions.

Assessment & Evaluation: Created quizzes, exams, and projects, providing constructive feedback that supported a 10% improvement in student performance.

Project Support: Assisted students with projects across programming, web development, and database management, offering guidance on problem-solving and foundational coding practices.

Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka
Machine Learning Cohort
February 2024 - July 2024 (6 months)

Capstone Project: Developed Lingu, a mobile application designed to support Mandarin Chinese learners in mastering Hanzi characters. Created using Kotlin and integrated with Firebase Auth and TFLite, Lingu enables users to practice Hanzi writing on a digital canvas, providing immediate scoring feedback with 90% accuracy. This application addresses a significant need in language learning by offering personalized, interactive feedback that enhances users' writing accuracy and overall language acquisition experience.

Gained hands-on experience and applied comprehensive knowledge in deep learning algorithms (ANN, CNN) through real-world projects, achieving practical proficiency in model design and implementation.

Explored and implemented generative AI principles through practical projects, successfully creating an image generation model and optimizing it by 20% for better accuracy and speed.

Led and completed additional projects focused on predictive modeling and data analysis, improving classification accuracy by 25% and demonstrating real-world applications in sectors such as e-commerce and healthcare.

Collaborated with a cross-functional team to design and deploy machine learning solutions, enhancing team productivity by 15% through effective coordination and shared problem-solving strategies.

Education

BINUS University
Master's degree, Information Technology · (September 2025 - September 2026)

BINUS University
Bachelor's degree, Business Information Technology · (September 2021 - February 2025)

Marsudirini Bekasi
High School Diploma, Science · (2018 - 2021)