ARCHICO DARIUS SIMPAR SEMBIRING

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East Jakarta, Jakarta, Indonesia

An adaptable fast-learner and reliable **Software Engineer** who combines technical capability with creative sensibility. Good in applying clean architecture, best practice principle, and detail-oriented work. Brings hands-on experience on software development life cycle (SDLC) from **internships** and **projects** by developing **mobile**, **web**, and **desktop** apps, with the ability in utilizing **AI** and **ML** models. My experiences in several organization and communities have also improved my business and industries soft skills and becoming collaborative and communicative team player.

EXPERIENCES

Mobile Engineer Intern, Telkomsel   *Sep 2024 – Dec 2024*
- Developing Robot Processing Automation (RPA) using Microsoft Power Automate to automate payment transaction for cross multi-platform devices in DuniaGames purchasing, increasing efficiency of logging transaction.
- Gain several soft skill competencies, communication and personal branding from the internship management, sales and marketing competencies from the marketing directorate.

Mobile Developer Intern, AirAsia   *Jun 2024 – Aug 2024*
- Gain new experience, competencies and insights by collaborating with Pilots, Cabin Crew, Flight Officers and other Aviation Staff to obtain application requirements analysis to be developed.
- Contributed to the development of several mobile-based applications regarding Training Simulator, Electronic Flight Bag, Weight & Balance and Attendance System with Flutter and Firebase.

Mobile Development Cohort, Bangkit Academy led by Google, GoTo, & Traveloka   *Feb 2024 – Jul 2024*
- Develop mobile development skills by learning android development from Google standard courses and instructor from tech industries and successfully obtain android certification in Kotlin and Android Studio.
- Expanding network by collaborating with participants from all over the nation to develop communication soft skills, teamwork and character development.

ICStar Hackathon 2023, PT. Orbit Nasional Edukasi (ONE) Indonesia   *Jun 2023 – Nov 2023*
- Developed Robot Processing Automation (RPA) capabilities by undergoing 3 months of training on AI, Java Fullstack, and RPA, and succeeded in building RPA using IBM RPA Studio to manage talent review at PT. IDStar Cipta Teknologi, which increases the efficiency of the talent review process by 20%.

EDUCATION

Bachelors in Informatics, Institut Teknologi Del   *Aug 2021 – Jun 2025*
- GPA: 3.82/4.00 (155 credits)
- Top 3 Most Outstanding Student of Institut Teknologi Del
- High Academic Performance Scholarship
- Lecturer Academic Assistant for Basic Programming
- Organization: Ministry of Communication and Information in Student Executive Board (BEM)
- English Score Test: 537 (TOEFL ITP), 100 (Duolingo English Test)
- **Relevant Courses:**
  Mobile Application Development, Web-based Application Development, Object Oriented Programming, Database, Software Engineering, Data Structure and Algorithm, Software Project Management, Software Design and Analysis, Software Testing and Quality Assurance, Machine Learning.

SKILLS

Tech Stack: Kotlin, Jetpack Compose, Java, Flutter, Node.js (React, Next, Nest, Express), PHP Laravel, Python, SQL.
Tools: Git, Docker, Coda, Postman, Generative AI (ChatGPT, Gemini, Grok), Stack Overflow.
Creative Design: Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro, Figma.
Soft Skill: Agile, Scrum, Project Lead, Public Speaking, Communication, Problem Solving, Bussiness Presentation.
Language: Bahasa Indonesia (Native), English (Professional Working Proficiency)

PROJECTS

Levelearn, Gamified Digital Learning Application *Jan 2025 – Jul 2025*
- Developing digital learning with gamification based using Express (Node.js) as backend REST API, Prisma as ORM, Supabase as Cloud Storage and MySQL as database.
- Developing mobile-based app using Flutter Dart and web-based app using React Typescript, integrated to backend with REST API with MVC architecture.
- Using Docker as containerization of all services, Git as version control platform, and VPS as deployment platform.
- Using Python Notebook on Google Colab for statistical analysis of app evaluation dataset with Regression model.

StuntGuard, Stunting Detection Mobile App using Machine Learning *May 2024 – Jun 2024*
- Developing mobile-based app to detect stunting disease with a machine learning model using TensorFlow which integrated with cloud computing using API and Google Cloud.
- Collaborate in team with different roles, implementing project management, communication, and presentation skills.

RepoStory, Story Repository Mobile App *Apr 2024 – May 2024*
- Developing mobile-based app to store story repositories by implementing Retrofit API, Local Storage, Geo Location, Authentication, Animation, Localization, CameraX, Unit Testing, Paging 3.

Asplecius, Cancer Detection Mobile App with Machine Learning *Mar 2024 – Apr 2024*
- Developing mobile-based app to detect cancer captured with CameraX, Intent Gallery, UCrop and then analysed with machine learning model using TensorFlow Lite image classification.

FRK & FED IT Del, Employee Plan and Evaluation Form-based Website App *Feb 2024 – May 2024*
- Role as full stack developer, implementing front-end using Bootstrap, backend using PHP Laravel, microservice using PHP Lumen, database integration using MariaDB, and other tools like Git, Postman.
- Create 2 microservices, front-end interface to user, and backend data management system implementing CRUD function, and implement API request with HTTP method to communicate each other.

ClickNic, Clinic Data Management App *Nov 2022 – Dec 2022*
- Role as full stack developer, implementing front-end using NetBeans Java Swing, backend using Java, database using PostgreeSQL and version control using Git, to create authentication function and CRUD function.
- Create authentication function and CRUD function.

ORGANIZATION

Google Developer Students Club *Sep 2023 – Sep 2024*
- Expanding networking and relationships by collaborating with other GDSC communities from universities throughout the nation and successfully presenting speakers from DANA software engineers.
- Building communication and public speaking skills by holding info sessions and tech talks and successfully holding info sessions from Bangkit Academy by Google.
- Develop Google-based software engineering capabilities by participating in the Juara Android, Bangkit Academy and Google Cloud Arcade program by Google.

CERTIFICATION

Android Developer Learning Path, Dicoding Indonesia *Feb 2024 – May 2024*
- Android Developer Expert
- Android Development with Jetpack Compose
- Applied Machine Learning for Android Developer
- Android Developer Intermediate

Udemy Certification *Feb 2024 – May 2024*
- Flutter & Dart, The Complete Guide 2024 Edition
- Complete A.I. & Machine Learning, Data Science Bootcamp
- The Complete 2023 Web Development Bootcamp