

# RAIS ILHAM NUSTARA

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## WORK EXPERIENCE

### Faculty of Science and Technology, Airlangga University

Surabaya, Indonesia

Web Designer, Intern

Sept 2022 – Dec 2022

- Implementing designs provided by the design team into the Wordpress platform for the website of the Faculty of Science and Technology.
- Continuously updating and maintaining the website, including but not limited to, troubleshoot and fix bugs, and ensure compatibility with different browser and devices.
- Implementing the designed layout and elements into the website fst.unair.ac.id.

### BPMPK, Kemdikbudristek RI

Semarang, Indonesia

Android Developer, Contract

Jul 2021 – Dec 2021

- Successfully developed android applications utilizing C# programming language and Unity software
- Working in collaboration with the drafting team and material reviewers to ensure the highest level of quality and accuracy in the final product.
- Troubleshoot and debugged issues that arose during the development process to ensure smooth operation and functionality of the applications.

## EDUCATION

### Airlangga University

Surabaya, Indonesia

S.Kom. in Information System; GPA: 3.76/4.00

Sept 2020 – 2024 (Expected)

## ACHIVEMENT

IDCamp Scholarship Track Android Developer Advanced Level; Awardee

December 2022

IDCamp Scholarship Track Android Developer Intermediate Level; Awardee

September 2022

DIY Governor's Achievement Award (Anugerah Prestasi); Awardee

November 2018

National Level Kihajar Mobile Application Competition; 2nd Place

October 2018

## PROJECTS

### Sentiment Analysis

2022

- Investigated public sentiment towards the police using a lexicon-based method and a support vector machine (Case Study: The Kanjuruhan Tragedy and the Ferdy Sambo).
- Successfully mined and analyzed a dataset of 19,523 tweets related to the study case, resulting in a sentiment analysis of 76.12% negative and 23.88% positive. Utilized the data to develop a Support Vector Machine (SVM) model, achieving an accuracy rate of 72.09%.

### Surabaya Dev Landing Page

2022

- Developed the landing page using Tailwind CSS and Astro Framework, resulting in a user-friendly landing page for Surabaya Dev community.
  - Designed and created visually appealing landing page designs for the Surabaya Dev community using Figma.
- Project Link : [raisilhamn.github.io/astro-tailwind](https://raisilhamn.github.io/astro-tailwind)

### Bank Personal Loan Modelling

2021

- Successfully developed and implemented a model using supervised learning techniques to predict the approval of personal loans from a bank. Achieving an accuracy of 94.7% using logistic regression, 94.9% using K-NN, 87.9% using Naive Bayes, and 91.1% with RBF, 92.3% with Poly, and 87.1% with Sigmoid using SVM.
  - Concluded that logistic regression algorithm had the highest accuracy and was the best fit for the project, resulting in an effective and reliable model for loan approval predictions.
- Project link [github.com/dscunair/machine-learning-projects](https://github.com/dscunair/machine-learning-projects)

### Github User Android App

2021

- Successfully developed and submitted an Android application for the course "Belajar Fundamental Aplikasi Android" using Kotlin language and achieved a 5-star rating from code reviewers on Dicoding.

- The application "Github User Android App" featured functionalities such as adding and removing users from a favorite list, displaying a list of favorite users, theme customization, searching for users using API, navigation using TabLayout, loading indicators on all pages, network implemented using Retrofit.

#### **Jamur / Struktur Tubuh Jamur Android App** 2021

- Developed an android using C# programming language and Unity software, at the request of Balai Pengembangan Multimedia Pendidikan dan Kebudayaan Kemdikbudristek RI.
- Utilized Figma to design visually appealing and user-friendly interfaces for the application, ensuring optimal user experience and engagement.  
Project link [bit.ly/ME21VLAB10](https://bit.ly/ME21VLAB10)

#### **Aksara Ku Android App** 2018

- Successfully developed a 'Aksara Jawa' learning application using Java programming language and Android Studio software.
- The application achieved second place in the National Kihajar Application Competition 2018, organized by Balai Pengembangan Multimedia Pendidikan dan Kebudayaan Kemdikbudristek RI.  
Project Link [bit.ly/ME18LOMP02](https://bit.ly/ME18LOMP02)

### TECHNICAL SKILLS

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**Programming:** Kotlin, Flutter, Java, C++, PHP, Python, MATLAB, R, LaTeX, Javascript

**Frameworks:** Laravel, React, Astro, Vue, TailwindCSS

**Developer Tools:** Tabelau Dekstop, Archimate, Android Studio, Unity, QGIS

### CERTIFICATES

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#### **Principles of SOLID Programming** | [link](#) 2022

*Object-Oriented Programming (OOP), Relationships in OOP, Software Design Principles, S.O.L.I.D*

#### **Fundamentals of Android Application** | [link](#) 2022

*Layout, Navigation, Background Threads and Networking, Android Architecture Components, APIs, Local Data Persistence, Background Tasks and Schedulers*

#### **Supervised Machine Learning: Regression and Classification** | [link](#) 2022

*Supervised Learning, Linear Regression, Logistic Regression for Classification, Regularization to Avoid Overfitting, Gradient Descent*

#### **Learn to Create Cognitive Applications** | [link](#) 2022

*IBM Cloud, Watson Assistant, Machine Learning - Watson Discovery*

#### **Getting Started With Programming in Python** | [link](#) 2022

*Basics of Python, Data types in Python, Style guide in Python, Control flow, Error handling, object-oriented programming, and unit testing*

#### **Getting Started With Programming in Kotlin** | [link](#) 2022

*Kotlin Fundamental, Control Flow, Data Classes and Collections, Kotlin Functional Programming, Kotlin Object-Oriented Programming, Kotlin Generics, Introduction to Coroutines*

#### **Learn to Create Basic Android Applications** | [link](#) 2022

*Activity, Intent, Views dan ViewGroup, Style dan Theme, RecyclerView*

### ORGANIZATIONS

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**AjakJago** Dec 2022 – Present

*Web Development Manager*

**UKM Panahan Unair** Oct 2022 – Present

*Head of Public Relations division*

**Google Developer Student Clubs Unair** Sept 2022 – Present

*Curriculum Core Team*

**Himpunan Mahasiswa Sistem Informasi Unair** Dec 2021 – Dec 2022

*Expert Staff of Media Division*