

# HANSEN IDDEN

COMPUTER SCIENCE

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## EDUCATION

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### Sepuluh Nopember Institute Of Technology, Indonesia

Sept 2020– Expected March 2024

- Bachelor of Science, Computer Science
- Overall GPA : 3.74/4.00, Major GPA : 3.70/4.00

## PATENTS

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### IProctor: AI-based Assessment Monitoring Application

2021

## RESEARCH EXPERIENCE

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### International Research Collaboration on Storage and Memory Systems

Oct '2022 - Nov '23

- Collaborating with Prof. Huaicheng Li of Virginia Tech and Prof. Ary Mazharuddin Shiddiqi of Sepuluh Nopember Institute of Technology
- Improving FEMU accuracy, added delay emulation to FEMU ZNS SSD mode
- Optimizing FEMU by reducing interrupt context switch
- Supported by the MoECRT ACE Open Research program

### Research Assistant, Sepuluh Nopember Institute Of Technology

Advisor: Prof. Dr. Diana Purwitasari, S.Kom., M.Sc.

(March '22 - Oct '22)

- Create Topic Modelling for social media posting with GSDMM, LDA, and IndoBERT + K-Means
- Create labelling data for Named Entity Recognition from social media posting
- Create analysis on social media user's behaviour in postings

## WORK EXPERIENCE

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### Data Scientist Intern

Bukit Vista Property Management

Bali, Indonesia (Winter 2021)

- Create a property classification model based on guest review for increasing sales engagement
- Deploy models to Bukit Vista server using Flask
- Create a topic modelling model based on review used by 3 teams for business decisions

### Bangkit 2020

Machine Learning Path

Jogja Cohort (January 2020 - June 2020)

- Top 3 Bangkit Final Project Jogja Cohort
- Youngest Graduates

## TALKS

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### Research in NLP and Text Pre-processing

BISA.AI

(Nov '21)

- Talks about the developing AI research especially in NLP field
- Discussing ways to tackle text pre-processing

## COMPETITIONS AND PROJECTS

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- Garuda Hacks 2.0 Hackathon** (November 2021)
- Best Sustainability Hacks
  - Best Ecoxyztem Award
  - Developed Recycle-Me an app that gamifying recycling processes
  - Create and deploy a garbage classification model for Recycle-Me app
- Quadrathlon 2021** (November 2021)
- 1<sup>st</sup> Winner Quadrathlon 2021 in Data Mining division
- GEMASTIK XIV** (October 2021)
- Finalist of Data Mining Divisions
- Quadrathlon 2020** (November 2020)
- 1<sup>st</sup> Winner Quadrathlon 2020 in Competitive Programming division
- 2<sup>nd</sup> Winner Quadrathlon 2020 in Data Mining division
- 3<sup>rd</sup> Winner Quadrathlon 2020 in Capture The Flag division
- National Sebelas Maret Mathematics Competition** (December 2019)
- 1<sup>st</sup> Winner of National Sebelas Maret Mathematics Competition

## TECHNICAL SKILLS

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**OS** Linux Kernel  
**Testbed** Emulab Cluster  
**Cloud** Google Cloud  
**Programming Language** C, C++, Python, Java, JavaScript, SQL, Laravel, Bash, LaTeX, Go  
**Web** React, Laravel, Flask  
**Mobile Dev** Android  
**AI** Tensorflow, Pytorch, Keras  
**DB** PostgreSQL, MySQL, SQLite  
**IaC & PaaS** Docker, Docker Compose  
**Other** LaTeX, GNUPlot, Make

## ORGANIZATION AND VOLUNTEERING

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- Data Mining Community, HMTC ITS**
- Committee (Jan '21 - Dec '21)
- A community for Computer Science students to learn and improve in Data Science
  - Inviting some well-known Indonesian Data Scientist to share their experience
- Intelligence and Vision Computational Laboratory**
- President (Jan '22 - Dec '23)
- Laboratory that focus on research in Artificial Intelligence
  - Managing the laboratory and some events held by the department
  - Helping lecturers that are part of our lab as Teaching Assistants, Research Assistant

## REFERENCES

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- Huaicheng Li** Assistant Professor  
*Computer Science, Virginia Tech*  
huaicheng@cs.vt.edu
- Ary Mazharuddin Shiddiqi** Associate Professor  
*Computer Science, Sepuluh Nopember Institute of Technology*  
ary.shiddiqi@if.its.ac.id
- Dini Adni Navastara** Head Lecturer  
*Computer Science, Sepuluh Nopember Institute of Technology*  
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