

Fadhil I. Kurnia

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Fresh Graduate of Computer Science
Undergraduate Program from
Institut Teknologi Bandung (ITB)

EDUCATION

Institut Teknologi Bandung (ITB)

Bachelor of Science in Informatics/Computer Science

Bandung, Indonesia

2015 – 2019

- **Advisor:** Achmad Imam Kistijantoro, Reza Satria Perdana
- **Thesis:** GC Scheduling in SSD RAID to Minimize Collision
- **CGPA 3.83/4.00**, graduated with **Cum Laude Distinction**

SMA 3 Semarang

High School

Semarang, Indonesia

2012 – 2015

- **Lead Student Science Community**, facilitate a group of students to participate in several regional, national, and international science research project competition.
- **Conduct several science projects** related to Software Development.
- **Attend Olympiad Class.**

RESEARCH

In Submission

Submitted to The 18th USENIX Conference on File and Storage Technologies (FAST '20)

TeaFA: A Tail-Evading Flash Array with a Gray-box IO Determinism Interface

Huaicheng Li, Ronald Shi, Mingzhe Hao, Martin L. Putra, **Fadhil I. Kurnia**,
Achmad I. Kistijantoro, Sujin Park, Jaeyoung Do, Xing Lin, Haryadi S. Gunawi

Bachelor Thesis

GC Scheduling in SSD RAID to Minimize Collision

Fadhil I. Kurnia

Institut Teknologi Bandung, 2019

EXPERIENCE

Research Assistant

UCARE Lab, University of Chicago

remote work

May 2018 - Now

Work closely with Prof. Haryadi S. Gunawi and his Ph.D students to conduct research on Storage Technology, such as SSD and RAID.

Teaching Assistant

Institut Teknologi Bandung

Bandung, Indonesia

Jan - Jul 2019

Course : IF3111-Platform Based Development. Help the student in the class to develop integrated software using Arduino, Android/iOS, and Unity.

AI Engineer Intern

Bukalapak Research & Development

Bandung, Indonesia

Jan - Mar 2019

Design and create a tool to support AI scientist, using Golang, Python, Kafka, MongoDB, Docker, etc.

Project Manager Intern

ITB Information Center Office (PPID)

Bandung, Indonesia

Jan - Jul 2019

Lead a team of 8 software engineers to design and create PPID main website and information system. People can ask any information about ITB through that website. The website get thousands of visitors each month (<https://ppid.itb.ac.id>).

Software Engineer Intern

ITB Information Center Office (PPID)

Bandung, Indonesia

Jul - Dec 2018

Create PPID mobile app using Ionic Framework, also launch it in Play Store.

Software Engineer Intern

Bukku.co.id

Depok, Indonesia

Dec 2017 - Jan 2018

Design database schema for an online bookshop, create a dashboard for shop admin with Go.

Software Engineer Intern

Tokopedia

Jakarta, Indonesia

May - Aug 2017

One of the big e-commerce companies in Indonesia, with over a hundred million visitors every month. Add a new feature at tokopedia chat on the web platform. Add new functionality in tokopedia feed used in web, iOS, and Android. Help design new software architect for Tokopedia feed.

Mobile App Developer Intern

Suitmedia

Bandung, Indonesia

Dec 2016 - May 2017

Maintained Android application with hundreds of active users. Bug fixing and improve algorithm efficiency. Also, create a new Android app as one of the company's products.

AWARDS & HONORS

Graduated (B.S) with Cum Laude Distinction

Institut Teknologi Bandung

Jul 2019

South East Asia Machine Learning School (SEAMLS) 2019University of Indonesia — *Travel Grant*

Jul 2019

Learn and engage with experts in machine learning, researchers, enthusiasts, and data scientists from Southeast Asia and beyond. Got selected from over 1200 candidates.

Experience KAIST School of Computing (SoC) CampKAIST, South Korea — *Travel Grant*

Jan 2019

One of selected students to participate in a week Experience KAIST Camp / School of Computing (SoC) Camp program in KAIST Daejeon Campus. Only 30 students from over 4.000 applications, from over 50 different countries, were accepted.

Other awards:

- **Semi Finalist** at Gemastik 9 2016 on Software Development
- **Gold Medal** at Indonesia Science Project Olympiad (ISPO) 2014 on Computer field
- **Runner-up** at Indonesia Student Research Olympiad 2014 - Central Java region
- **Gold Medal** at Infomatrix 2013, International Project Competition, Romania.
- **Silver Medal** at Indonesia Science Project Olympiad (ISPO) 2013 on Computer field

PROJECTS

Sinau—*Chatting app for student and tutor*

An Android-based chatting app that developed for student and tutor so they can communicate easily.

Technology used: Android, Java, Firebase, Realm, Retrofit

Absis — *Management software for school*

Web-based software to ease teacher in junior high school. Still in use at a junior high school in Semarang. Make the code open-source and

Technology used: Laravel, MySQL, PHP

H-Touch—*Android app for visually impaired people*

Developed an Android app for visually impaired people that can help them send messages, write notes, write tweets, tell the current time.

Technology used: Android

Faster System — *Point of Sales with RFID*

Make transaction in supermarket faster with RFID implementation. Just need a second to read all items in a trolley.

Technology used: Microsoft Access, Visual Basic

SKILLS

Programming Language: C/C++, Pascal, Go, Python, Java, PHP, JS, HTML & CSS

Database: MySQL, Redis, MongoDB

Simulation: SSDSim

OS: Unix based OS, Windows

Last update: December 2019