

## CURRICULUM VITAE

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### Employment History

Year	Description
2017 - now	<b>National Statistics Agency of Indonesia</b> , Network Operation Center staff at Headquarter office, responsible to manage and develop computer networking related technologies between headquarter office, 33 provincial branch offices, and 514 regency-level branch offices.
2009 – 2014	<b>National Statistics Agency of Indonesia</b> , Head of Data Analysis Section in Selayar regency branch office, responsible to supervise data collection process, calculate regency's gross domestic product, perform data analysis, and publish statistical publications.

### Formal Education

Year	Description
2014 – 2016	<b>Master in Computer Science, (M.S.)</b> , with Additional Certificate in Information Assurance, University of Arkansas, Fayetteville, AR, the United States.
2003 – 2008	<b>Bachelor of Applied Science (D IV)</b> , in Statistical Computing, Institute of Statistics, Jakarta, Indonesia.
2000 – 2003	<b>Senior High School</b> , SMU Negeri 1, Salatiga, Jawa Tengah, Indonesia.
1997 – 2000	<b>Junior High School</b> , Assalaam Islamic Boarding School, Solo, Jawa Tengah Indonesia.
1991 – 1997	<b>Primary School</b> , SD Negeri 1 Dukuh, Delanggu, Klaten, Jawa Tengah, Indonesia.

### Informal Education and Trainings

Year	Description
2009	<b>Integrated Database Programming Short Course</b> , BPS-Statistics Indonesia Training Centre, Jakarta.
2003	<b>Animation and Web Design Workshop with Dreamweaver and Flash</b> , Komunitas Data, Depok, Jawa Barat.
2003	<b>Personal Computer Assembling and Troubleshooting Workshop</b> , Tabloid PC Plus, Bekasi, Jawa Barat.
2002	<b>General English Course, Advanced Level</b> , Yasa Luhur Business College, Salatiga, Jawa Tengah.
2002	<b>General English Course, Pre-Advanced Level</b> , Yasa Luhur Business College, Salatiga, Jawa Tengah.

## Technical Experiences

Developing Data Lake platform with combination of Hadoop based, Microsoft environment, and other analytics tools for future daily operation and analytics at headquarter office of National Statistics Agency of Indonesia. (2017 – current).
Developing Log Analytic platform using Elasticsearch, Logstash, and Kibana environment for traffic monitoring of future daily network operation center at headquarter office of National Statistics Agency of Indonesia. (2017 – current).
Implemented variations of Neural Network learning algorithms from scratch using Java (Fall 2016).
Inferring Mobile Apps from the Resource Usage Patterns (2014 – 2016). M.S. Thesis. Showed using several machine learning algorithms that we can infer the type of apps being used by looking at CPU usage pattern with 100% accuracy on single mobile device and 66.67% accuracy on mobile cloud platform. (Ubuntu Linux as server, custom Android 4.3 Jelly Bean as client).
Developed Razorback Transit Notification app that calculates and notifies University of Arkansas Bus riders when is the right time to walk to the bus stop based on several criterions such as distance, user's walking pace, passing a crosswalk, and current weather. (Fall 2014, Apple Swift on iOS 8).
Deployed Elgg-based social network engine for Indonesia's Statistics Agency State's office internal communication (2009 – 2013).
Developed custom Ubuntu distribution to support application needs for daily operation for National Statistics Agency of Indonesia based on requirement analysis of its 60 divisions at the headquarter. Bachelor Thesis. (2008).
<b>Languages and Technologies:</b> Java, Bash, C++11, Parallel Programming with OpenMP, Scala, MapReduce, Hadoop, Apache Spark, Apple Swift, PHP/CSS/HTML, Matlab, MySQL.

## Academic Publications

Year	Description
2017	"Inferring Mobile Apps from the Resource Usage Patterns". 5th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering. April 2017. IEEE Explore link: <a href="http://ieeexplore.ieee.org/document/7944876/">http://ieeexplore.ieee.org/document/7944876/</a>
2016	Exploring Privacy Leakage from the Resource Usage Patterns of Mobile Apps (2016). Master Thesis.
2009	<b>Free Software Business: Business Ideas on Utilizing Free/Open Source Softwares as Money Maker</b> (In Bahasa Indonesia), Elex Media Komputindo Publisher. Book.
2008	<b>Developing GNU/Linux Distribution for Migration of BPS-Statistics Indonesia Computer System from Windows Based to GNU/Linux Based</b> (in Bahasa Indonesia), Proceeding of National Conference on Information System, STIKOM, Denpasar, Bali, Indonesia.
2008	Developing Linux Distribution for Migration of National Statistics Agency of Indonesia Computer System from Windows Based to Linux Based (2008). Bachelor Thesis.

## Conferences and Presentations

Year	Description
2017	"Inferring Mobile Apps from the Resource Usage Patterns". 5th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering. April 2017. IEEE Explore link: <a href="http://ieeexplore.ieee.org/document/7944876/">http://ieeexplore.ieee.org/document/7944876/</a>
2008	<b>Developing GNU/Linux Distribution for Migration of BPS-Statistics Indonesia Computer System from Windows Based to GNU/Linux Based</b> (in Bahasa Indonesia), National Conference on Information System, STIKOM, Denpasar, Bali, Indonesia.
2008	<b>Urgent Utilizing of GNU/Linux and Open Source Software for Independency and Productivity of Information Technology in Indonesia</b> (in Bahasa Indonesia), e-Indonesia Initiative Forum, Jakarta.
2006	<b>Speaker for Seminar on GNU/Linux and Open Source</b> (in Bahasa Indonesia), Computation Statistics Organization, Institute of Statistics, Jakarta.

### Other Publications

Year	Description
2007	<b>Urgent Utilizing of GNU/Linux in Institute of Statistics and BPS-Statistics Indonesia</b> (in Bahasa Indonesia), Second Place, Scientific Writing Contest celebrating 49 <sup>th</sup> Institute of Statistics Dies Natalis.
2006	<b>Mandriva Linux, Let's Try It</b> (in Bahasa Indonesia), an article published in Bulletin of Computation Statistics, Institute of Statistics.
2006	<b>Introduction to GNU/Linux</b> (in Bahasa Indonesia), an article published in Bulletin of Computation Statistics, Institute of Statistics.
2005	<b>Zero Mind Process to Support Self Assesment System as People Awareness and Careness to Pay Tax</b> (in Bahasa Indonesia), published as book compilation with other nominee of National Scientific Writing Contest on Taxation, Ministry of Finance, Republic of Indonesia
2004	<b>Tips and Trick on Buying Personal Computer</b> (in Bahasa Indonesia), an article published in Buletin Statistika Magazine, Student Journalistic Organization, Institute of Statistics.

### Achievements and Awards

Year	Description
2014 - 2016	Full M.S. scholarship from the Fulbright program administered by the United States Department of State.
2012	<b>First Place, Scientific Writing Contest</b> celebrating National Statistics Day, BPS-Statistics of Sulawesi Selatan.
2003 - 2008	Full undergraduate scholarship from National Statistics Agency of Indonesia.
2007	<b>Second Place, Scientific Writing Contest</b> celebrating 49 <sup>th</sup> Institute of Statistics Dies Natalis.
2005	<b>Nominee, National Scientific Writing Contest on Taxation</b> , Ministry of Finance, Republic of Indonesia.
2002	<b>First Place, Model Student Contest</b> , Senior High School, Salatiga, Jawa Tengah.
1999	<b>Third Place, Skill Crossword and Puzzle of Language</b> , Junior High School, Assalaam Islamic Boarding School, Solo, Jawa Tengah.

### Organization Activities and Professional Membership

Year	Description
2012 - now	Member of Association for Computing Machinery.
2004 - 2007	Secretary General, Student Journalistic Organization, Institute of Statistics. Managed 2 news products, various workshop and writing competitions activities with around 30 staffs for around 1,000 readers.
2002 - 2003	President, Association of Student Government (OSIS), Senior High School. Managed various activities of around 10 interest-based sub-organizations for around 1,200 students.
2001 - 2003	Member of Scientific Student Organization (KIR), Senior High School.