

## EXPERIENCE

<b>Co-Founder/CTO</b>	<b>Neurafarm</b>	<b>Aug 2017 - Present</b>
<ul style="list-style-type: none"> <li>Develop a technical strategy for the company.</li> <li>In charge of discovering, evaluating, implementing, and maintaining new/existing systems and infrastructure.</li> <li>Advocates for innovative ideas and keeping up on competitive trends.</li> </ul>		
<b>AI Engineer, Part-time</b>	<b>Prosa.ai</b>	<b>Feb 2018 - Aug 2018</b>
<ul style="list-style-type: none"> <li>Working on a neural coreference resolution system.</li> <li>Developed a quotation extractor system from Indonesian News using rule based and deep learning with &gt;90% of accuracy.</li> </ul>		
<b>Software Engineer, Intern</b>	<b>Kata.ai</b>	<b>May 2017 - Aug 2017</b>
<ul style="list-style-type: none"> <li>Rebuilt Jemma, official Line Bot of Unilever Indonesia with 1.4+ million of users at the time from scratch within 2.5 months resulting in highly maintainable codebase.</li> <li>Redesigned Jemma for better user experience and better user retention.</li> <li>Implemented new features for better credentials gathering, and added knowledge for smarter answers.</li> </ul>		
<b>Microsoft Student Partner</b>	<b>Microsoft Indonesia</b>	<b>Oct 2016 – Present</b>
<ul style="list-style-type: none"> <li>Demo the latest technologies from Microsoft, host events, and connect with other students and faculty to inspire them to create what's next.</li> </ul>		
<b>Software Engineering Lab Assistant</b>	<b>Institut Teknologi Bandung</b>	<b>Sept 2016 – Present</b>
<ul style="list-style-type: none"> <li>Teaching assistant for several courses. e.g. Software Engineering Basics, Management of Software Engineering</li> </ul>		

## EDUCATION

<b>Bandung, West java</b>	<b>Institut Teknologi Bandung</b>	<b>Aug 2014 – Present</b>
<ul style="list-style-type: none"> <li>B. Eng. in Informatics/Computer Science.</li> <li><b>Bachelor Thesis: Text to Image using Deep Generative Models.</b> an intersection of Computer Vision and Natural Language task. Make a computer to be able to understand what is in image by training it to generate images from mere text descriptions. It has lots of practical application ranging from interactive computational graphic design, image fine-tuning, and perhaps even animation.</li> <li><b>Undergraduate Coursework:</b> Artificial Intelligence, Machine Learning, NLP(Text and Speech), Image Interpretation and Processing, Development of Distributed Applications, Distributed and Parallel System; Operating Systems; Databases; Comp. Architecture; Software Engineering; Algorithms Design; Algorithm and Data Structures.</li> </ul>		

## TECHNICAL EXPERIENCE

### Selected Projects

- Dr. Tania** (2017 - Present). A deep learning based **chatbot that could identify crop diseases** through image recognition. She can tell the farmer about symptoms, and how to manage the disease correctly and effectively. Tania paving the way towards affordable data-driven and precision farming for farmers around the world so they can prevent losses and increase crop yields.
- Cynthia** (Nov 2017 – Feb 2018). An android application that utilizes the power of **visual search engine** which enables better product discovery and recommendation. The visual search engine was developed in-house using by Machine Learning.
- Leptons** (2017). Inherently social **Personal Assistant** for LINE messenger; Able to find good places for hangout, suggests cool movies to checkout, order uber, and even traffic monitoring. All is accessible within conversation. Built using Python, Flask Microframework, API.ai, Google APIs, Bing APIs, Heroku, Azure, LINE Messaging API.
- Sistem Monitoring Anggaran (Budget Monitoring System). Professional Project.** a web-based budget monitoring system that allows better business budget planning, control, tracking, and monitoring as well as enhancing accountability of costs and expenses in PT. Pertamina Ulubelu Area business activities.

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#### ADDITIONAL EXPERIENCE AND AWARDS

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- **Ganesha Karya Award (2018):** an award presented by Bandung Institute of Technology (ITB) to recognize achievements and excellence of its students in innovation.
- **MSP Asia Summit (2018):** Represent Microsoft Student Partner (MSP) Indonesia at the first ever MSP Summit Asia 2018 in Taipei, Taiwan.
- **Finalist, Microsoft Imagine Cup Asia-Pacific (2018):** Represent Indonesia at the regional finals and compete with other Asia Pacific countries. Built a chatbot called Dr. Tania to help farmers around the world to cope with crop diseases through image recognition.
- **Gold Prize, by World Invention and Technology Expo (WINTEX) (2018):** An international expo held by Institute of Innovation and Entrepreneurship (LPIK ITB) and Indonesian Invention and Innovation Promotion Association (INNOPA) where 100 of innovation projects from Indonesia, Malaysia, India, Sri Lanka, Taiwan, Korea, and Romania showcased to promote and market their products. Dr. Tania received the gold prize.
- **1<sup>st</sup> Winner, Data Mining Competition - Gemastik (2017):** Nationwide annual information technology competitions held by Indonesia Ministry of Research, Technology, and Education. More than 2,300 teams from 113 colleges in Indonesia participated in their respective categories. There are 10 categories including Data Mining, Capture the Flag, Competitive Programming, Smart City, etc.
- **2<sup>nd</sup> Winner, Indonesia Developer Summit Hackathon (2017):** Built a Deep Learning based Visual Search Engine to improve customers' shopping experience and brand searchability.
- **Best Student Team, Facebook Developer Hackathon (2017):** Built a chatbot to help farmers diagnose crop diseases through smartphone camera called Dr. Tania.
- **2<sup>nd</sup> Winner, Data Mining Competition Inkubator IT Apprentice Challenge:** an internal data mining competition held by ITB Informatics Student Union (HMIF).
- **Finalist, LINE Dev Challenge Indonesia (2017):** Built a Personal Assistant Bot on LINE messenger, top 12 out of 399 contestants.
- **2<sup>nd</sup> Winner, Hackathon UMN (2016):** Awarded a 2<sup>nd</sup> prize for hoaxbuster project in nationwide hackathon held by Universitas Multimedia Nusantara and Kurio.

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#### Languages and Technologies

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- C++; C; C#; Java; Python; Scala; Node.js; SQL; JavaScript; PHP;
- NLP; Machine Learning; Computer Vision; Image Processing; Data Mining; Distributed Systems;
- Tensorflow; Keras; MXNet; Gluon; Pytorch; Firebase; Android; Flask Microframework; Laravel; HTML; CSS; Git; CUDA Programming;