

## EXPERIENCE

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**PT Telekomunikasi Indonesia** Jan 2019 | Jun 2019  
*as Data Scientist Intern @ Divisi Digital Service*

- Contributed to computer vision projects such as Document Recognition with OCR.
- The project does the OCR computation in Google Cloud Platform. My contribution was developing the system's command line interface application for integration with Telkom's existing recruitment website.

**Optical Communication System Lab** Aug 2017 | Aug 2018  
*as Research Assistant Coordinator*

- Organized FTTH Drafter Training, paid optical communication system training event with 30 participants (mostly final-year undergraduate students).
- Competed in Ristekdikti PKM. My team managed to get 2 proposals accepted.

**PT Radar Telekomunikasi Indonesia** Apr 2018 | Jun 2018  
*as Intern*

- GUI project (Microsoft Visual Studio) for radar antenna motor.

## PROJECTS

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**xls2json** Python  
[pypi.org/project/xls2json/](https://pypi.org/project/xls2json/)

- Command line interface tool to convert XLS file to JSON.

**Grab Computer Vision Challenge** Python  
[github.com/tbmreza/grab-computer-vision-challenge](https://github.com/tbmreza/grab-computer-vision-challenge)

- Explored the effect of background removal as image classification pre-processing.
- Dataset: Stanford Car (over 16000 images). Architecture: EfficientNet.

**PixelAdder: Image Restoration based on Convolutional Neural Network for Intelligent Surveillance Camera** Python, Matlab

- Gemastik 2018 participant team member.
- Built a CNN that maps less recognizable 8x8 pixel face image to 32x32.

**Computer Vision Course Final Project** Matlab

- Matlab GUI development to demonstrate a given paper.
- Paper title: Single-Image Super-Resolution Based on Rational Fractal Interpolation.

## EDUCATION

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**Telkom University** Aug 2015 | Apr 2019  
Sarjana Teknik Telekomunikasi  
thesis: *Design of WDM VLC in FTTH Network*  
publication: [ejournal.itn.ac.id/index.php/seniati/article/view/2309](http://ejournal.itn.ac.id/index.php/seniati/article/view/2309)  
GPA: 3.65/4.00  
honor: Cum Laude

## SKILLS

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languages: Python, JavaScript  
tools: Ubuntu, Jupyter, Git, L<sup>A</sup>T<sub>E</sub>X  
general: Optical Communication System, Computer Vision, Software Engineering

## ONLINE CERTIFICATIONS

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**JavaScript Algorithms and Data Structures** freeCodeCamp  
[freecodecamp.org/certification/tbmreza/javascript-algorithms-and-data-structures](https://freecodecamp.org/certification/tbmreza/javascript-algorithms-and-data-structures)

**Data Science on the Google Cloud Platform** Qwiklabs  
**Baseline: Data, ML, AI**  
[qwiklabs.com/public\\_profiles/a52e3f27-2aaa-405a-bdd4-8bd2c6c2a89b](https://qwiklabs.com/public_profiles/a52e3f27-2aaa-405a-bdd4-8bd2c6c2a89b)