

# Kemal Maulana Kurniawan

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## EDUCATION

*MSc, Artificial Intelligence*  
University of Edinburgh, Edinburgh, United Kingdom, 2017 (expected)

*BS, Computer Science*

Universitas Indonesia, Depok, Indonesia, 2015

- Undergraduate thesis: “Off-Topic Post Detection in Discussion Forums with Anomalous Text Detection Method”. Supervised by [Hisar Maruli Manurung](#).
- Graduated *cum laude* with CGPA of 3.87 (highest is 4).
- Participated in ACM-ICPC Asia-Jakarta 2010 and 2012, Asia-Kuala Lumpur 2011, and Asia-Hanoi 2012.
- Courses taken include linear algebra, statistics and probability, numerical analysis, and natural language processing.

## RESEARCH

*Young Scientist Exchange Program* 2013 - 2014  
Tokyo Institute of Technology, Tokyo, Japan

- Final report: “Predicting Within- and Inter-community Links in Networks”. Supervised by [Tsuyoshi Murata](#).
- Presented the work in the 102nd conference of The Japanese Society for Artificial Intelligence.
- Wrote link prediction module for [NetworkX](#), a Python library for manipulating and analyzing networks and graphs.

*Junior Research Assistant, Intern* 2013  
National University of Singapore, Singapore

- Assisted a research in statistical machine translation under supervision of [Ng Hwee Tou](#) from NUS School of Computing.
- Implemented English-to-Chinese translation system prototype using Moses package based on the existing Chinese-to-English translation system.

## EMPLOYMENT

*Teaching Assistant* Feb 2016 - Jun 2016  
Faculty of Computer Science, Universitas Indonesia, Depok, Indonesia

- Led the teaching assistant team for Functional Programming course and prepared materials for the bi-weekly tutorials.
- Prepared project assignment materials and assisted students in weekly tutorials for Advanced Programming course.
- Conducted tutorials for Statistics and Probability course.

*Software Engineer* Apr 2015 - Jan 2016  
PT Dwi Cermat Indonesia, Jakarta, Indonesia

- Implemented auto-generation of minified CSS and JavaScript, auto-revert of broken build, and auto-tagging of successful build in production branch using Gulp and Travis CI.
- Implemented Slack webhook integration for error logs, Ansible deployment logs, and Fail2Ban logs.
- Wrote test fixtures creation module with Faker.js, reducing boilerplate code of setting up testing data.

- Implemented captcha and IP blocker with Fail2Ban to protect servers from malicious attacks.

*Software Engineer* Jan 2015 - Apr 2015  
PT Rekan Usaha Mikro Anda (RUMA), Jakarta, Indonesia

- Added SMS notification services to existing RUMA agents web management system.
- Developed balance deduction penalty system for RUMA agents that are dormant for a certain period of time.
- Fixed a critical bug in existing implementation regarding transaction report and agent transfer.
- Developed a simple middleware implementing RESTful API to be used for RUMA's Android application.

*Teaching Assistant* 2011 - 2015  
Faculty of Computer Science, Universitas Indonesia, Depok, Indonesia

- Was responsible for 15 - 20 students in Discrete Math, Linear Algebra, Statistics and Probability, and Data Structures and Algorithms courses.
- Conducted tutorials, assisted students in doing their assignments, and graded their works.

**PRESENTATION** *Predicting Within- and Inter-community Links in Networks* 24 July 2014  
102nd conference of The Japanese Society for Artificial Intelligence, Osaka, Japan

**PROJECTS** *TululBot* <https://github.com/tulul/tululbot>  
A simple Telegram bot to search slang terms on Urban Dictionary, say happy birthday, or other fun things. Contributed to this project by rewriting the bot using Flask, moving it to Heroku, and implementing some features. Role: active maintainer.

*NetworkX* <https://networkx.github.io>  
A Python package for creation, manipulation, and study of networks and graphs. Contributed to this project by writing the link prediction module. Role: contributor.

**HONORS AND AWARDS** Indonesia Endowment Fund for Education Scholarship 2016  
2nd Runner-Up, Gemastik 5 Programming Competition (national-level) 2012  
4th Runner-Up, ITB Programming Contest (national-level) 2011

**CERTIFICATION** Data Analysis and Statistical Inference by Duke University on Coursera 2015

**SKILLS** Natural languages Indonesian, English, Japanese  
Programming languages Python, JavaScript, Haskell, Java, LaTeX  
Operating Systems macOS, Arch Linux, Ubuntu

**LINKS** LinkedIn profile <http://id.linkedin.com/in/kemalmaulana>  
Github profile <https://github.com/kmkurn>  
Gitlab profile <https://gitlab.com/kmkurn>  
Personal website <https://www.kkurniawan.com>