Aldrian Obaja Muis   *Curriculum Vitae*

CONTACT INFORMATION	*E-mail:* aldrianobaja.m@gmail.com *WWW:* justhalf.net76.net
CAREER OBJECTIVE	Improving human knowledge through academic teaching and in-depth research
RESEARCH INTERESTS	Algorithm, mostly on natural language processing

WORK EXPERIENCE

Singapore University of Technology and Design (SUTD), Singapore
Research Assistant — **Jul '15 - Present**

- Explored semantic representation through word embedding algorithms
- Advisor: Prof. Lu Wei

Knorex Pte. Ltd., Singapore
Research Engineer — **Jul '13 - Jun '15**

- Designed and performed experiments for text classification on news articles
- Implemented and extended existing method on concept extraction for key terms extraction
- Redesigned and optimized a system for efficient distributed computing
- Developed and maintained in-house tools for natural language processing

EDUCATION

National University of Singapore, Singapore — **Jul '09 - Jul '13**
Undergraduate, School of Computing

- Bachelor of Computing (Computer Science, First Class Honours)
- Recipient of Lijen Industrial Development Award (Second top student)
- Majoring in Computer Science with focus area on Computer Networks
- Taking the course under Turing (research) Program
- Minoring in mathematics

SMAK 1 BPK PENABUR, Bandung, West Java, Indonesia — **Jul '06 - Jun '09**
Senior high school education

PAST RESEARCH

School of Computing, **National University of Singapore**, Singapore
Final Year Project (Honours Project) — **May '12 - Apr '13**

- Evaluated an existing algorithm for domain specific Word Sense Disambiguation through comparison with other algorithms
- Advisor: Prof. Ng Hwee Tou

Undergraduate Research Opportunity Program (UROP) — **May '11 - Apr '12**

- Implemented and evaluated existing algorithm on extracting data from the Web under different domain through extensive experiment
- Advisor: A/P Stéphane Bressan

Undergraduate Student Researcher (USR) — **May '10 - Dec '10**

- Analyzed the quality of translation from English to Malay and English to Bahasa Indonesia
- Adapted existing Malay word stemming program into Bahasa Indonesia
- Studied the language differences between Malay and Bahasa Indonesia
- Advisor: Prof. Ng Hwee Tou

ACADEMIC EXPERIENCE

School of Computing, **National University of Singapore**, Singapore
Web Project Developer for TEAMMATES — **May '12 - Jun '12**

- Evaluated existing code and improve testing time to 5 times faster by refactoring and recoding the whole testing phase in 6 weeks
- Migrated the application from a client-based Javascript website into server-based JSP website

Teaching Assistant (TA)

Class tutor for CS1231: Discrete Structures	**Aug '12 - Nov '12**
Laboratory TA for CS1020: Programming Methodology 2	**Jan '12 - Apr '12**
Laboratory TA for CS1020: Programming Methodology 2	**Aug '11 - Nov '11**
Laboratory TA for IT1006: MATLAB Programming	**Jan '11 - Apr '11**

- Performed beyond the call of duty by conducting a mock exam to help students understand the topic
- Delivered presentations in class of around 14 to 22 students every week

CO-CURRICULAR ACTIVITIES	NUSSU commIT (formerly known as NUSSU CBLC until Jun '11)	
	Head of Technical Cell	**Jul '12 - Jun '13**
	Assistant Head of Technical Cell	**Jul '10 - Jun '12**
	Member of Technical Cell	**Aug '09 - Jun '10**

- Maintained 100+ computers in the computer clusters in NUS through general cleanup, backup, and automated updates
- Developed public and internal website of NUSSU commIT for intensive daily usage

Technical Head *of NUSSU CBLC IT Flair 2010*   **Feb '10 - Apr '10**

- IT Flair is a combination between IT Fair and Flea market
- Developed website as publication media for the event and for selling second-hand items

Vice Project Director *of NUSSU CBLC Cyberia Camp 2010*   **Oct '10 - Dec '10**

- Cyberia Camp is a 3-day camp for certified Adobe Photoshop and Illustrator Training
- Led a team of 14 people to successfully organized the camp and received overwhelming response and positive feedback

AWARDS	**Lijen Industrial Development Award**	**Jul '13**

- Represents the second top student in the batch

Dean's List Recipient for 4 (four) semesters   **Jul '09 - Dec '11**

- Represents top 5% of the cohort in Jul '09, Jan '10, Jan '11, Jul '11

Scholarship from Indonesian Government to pursue tertiary education   **Jul '09 - Jun '13**
Bronze medal, International Mathematical Olympiad in Bremen, Germany   **Jul '09**
Bronze medal, International Mathematical Olympiad in Madrid, Spain   **Jul '08**
Absolute winner, National Mathematical Olympiad in Surabaya, Indonesia   **Sep '07**
Bronze medal, National Mathematical Olympiad in Semarang, Indonesia   **Sep '06**
Gold medal, National Mathematical Olympiad in Jakarta, Indonesia   **Sep '05**
NUS ISCF (Indonesian Students' Christian Fellowship)

     Executive Committee   **Jul '11 - May '13**

- Managed a weekly group meeting of around 40 students

PROJECTS	**YunReading**, final project for software engineering module	**Aug '11 - Dec '11**

- An online e-book reader based on Javascript framework JQueryMobile which is customized for display in mobile devices
- Developed the back-end to handle database and data input

Chatbox, personal project on LaTeX chatting client   **Apr '11 - Jun '11**

- A Java based software to communicate LaTeX messages via instant messaging
- Designed and developed the whole project

Sapta Samudra, final project for software engineering module   **Jan '11 - May '11**

- A strategy turn-based game built using Java
- Designed most of the project design and developed most of the game mechanics and animation

HOBBY AND INTEREST	Music (playing piano), reading books, and literature

SKILLS	Computer Programming:

- Java, Python, JavaScript, Perl, C++

Software Engineering:

- Designed and developed web and desktop applications

Information/Internet Technology:

- Maintained small to moderate size computer networks

Mathematics:

- Combinatorics, especially graph theory

LANGUAGES	Bahasa Indonesia (mother tongue), English