

# Curriculum Vitae

## Personal Information

Name : Reza Ferrydiansyah  
Gender : Male  
E-mail : [rezaferry@gmail.com](mailto:rezaferry@gmail.com), [ferrydia@msu.edu](mailto:ferrydia@msu.edu)  
Webpage : <http://www.cse.msu.edu/~ferrydia>

## Education

Bachelor : Department of Informatics, 1996-  
Institut Teknologi Bandung 2001  
Bandung – Indonesia  
Final Project: Pemrograman Tingkah Laku Robot dengan  
Pembelajaran Menggunakan Paradigma Pemrograman  
Genetik  
(Creating A Robot Behavior through Learning Using  
Genetic Programming)  
GPA: 3.20

Masters : Health Information Management Department, 2003-  
University of Pittsburgh. GPA 3.85. (MSc) 2005

PhD Computer Science Engineering Department, 2005-  
Michigan State University. Current GPA 3.875 2010  
Specialization in Cognitive Science  
Thesis: Creating Natural Motion using Natural Spaces  
Based on Motion Captured Data

## Technical Expertise

Programming Language / Tools : Basic, Pascal, C, PHP, Perl, Delphi, Fortran, LISP, Java, CLIPS, Prolog, JSP,  
OpenGL, HTML, XML, Matlab, Javascript

Databases : Oracle, MsAccess, MsSQL, Postgresql, MySql

Operating System : Linux, Windows

Miscellaneous : Apache Web Server, Power Designer, Tomcat Server, Simulink

## Work Experience

Time	Organization	Position	Responsibility
1998-1999	HMIF (Informatics Student Group) Workshop	Director	Head a group of students willing to work on outside projects.

1999-2000	School of Industrial Technology Institut Teknologi Bandung (FTI-ITB)	Software Developer and Network Administrator	Maintain the network in the FTI office and create application used by the whole faculty
1999-2001	Lembaga Pendidikan Komputer Indonesia Jepang (LPKIJ)	Teaching/ Lab Assistant	Give students hands on practice in application usage and development
1999	Eijkman Institute (Biomedical Research Institute)	Intern	Created interface for a multiple alignment software.
1999-2002	Kurusetra.Com	Project Officer	Create new ideas for products
2000-2001	Tim-IF ITB	Software Developer	Develop software for the company's clients. Projects include e-commerce implementation, and a government portal.
2001-2003	RUSNAS	Researcher	
2001-2002	6221.net	Developer	Developer for an online e-commerce site
2001-2003	Department of Informatics Institut Teknologi Bandung	Lecturer / Researcher	
2003-2005	HIM Department, University of Pittsburgh	Research Assistant	Research on creating web accessibility transformer for blind users.
2005-2007	CSE department Michigan State University	Teaching Assistant	CSE 101 lead, assistant, proctor and grader
2006-2010	METLAB, Computer Science Engineering, Michigan State University	Member	Perform research at the Media and Entertainment Lab
2007	Mapdaze.com	Founder/Lead Developer	Created a program that allows user to create maps easily and put in blogs
2007-2010	CSE department Michigan State University	Head Graduate Assistant	CSE 101 database and web administrator. Also responsible for constant improvement to the course administration.
2008	Research and Development, General Motors	Intern	Developed the next generation car simulation using simulink and C++
2009	Mindlab – Michigan State University	Member	Perform research at the Mindlab (Media Interface Network Design lab).

## Grants and Awards

- 2002 – Quality Undergraduate Education Research Grant. Grant towards the completion of Algoshop
- 2008 – Entrepreneur Faculty for the 21<sup>st</sup> Century Fellowship. Fellowship towards training for entrepreneurial topics related to research.

## Courses Taught

### **Advanced Networking**

Period: Spring 2002, Spring 2003

Place : Department of Informatics – Institut Teknologi Bandung

Topics taught: Routing, ATMs.

### **Introduction to Network**

Period: Fall Term 2002

Place : Department of Informatics – Institut Teknologi Bandung

Topics taught: Protocol Stack. TCP layer.

### **Multimedia**

Period: Fall Term 2002

Place : Department of Informatics – Institut Teknologi Bandung

Topics taught: Representation of multimedia.

### **Algorithms and Programming**

Period: Summer Term 2002, Spring Term 2003, Summer Term 2003

Place : Department of Informatics – Institut Teknologi Bandung

Topics taught: Basic Programming Construct: loops, conditional, input, outputs, arrays.

### **Object Oriented and Concurrent Programming**

Period: Spring Term 2003

Place : Department of Informatics – Institut Teknologi Bandung

Topics taught: Object Oriented in Java. Messaging in concurrent programming.

### **Object Oriented Programming**

Period: Spring 2005

Place : Health Information Management Department, University of Pittsburgh

Topics taught: Practical Object Oriented using Java

### **CSE 101 – Computing Concept and Competencies**

Period: Fall 2005, Spring 2006, Fall 2007

Place: Michigan State University

Topics taught: Word, Excel, Access databases and web design

## **Research Experience**

**Creating A Robot Behavior through Learning Using Genetic Programming.** 2000-2001. Undergraduate Final Project

This application used Genetic Programming to create a robot behavior that enables it to solve a specific problem.

**Student Councilor Expert System.** 2002-2003. Technician

Informatics Department, Institut Teknologi Bandung

Creating an expert system that can be used as a councilor to solve a myriad of students' problem.

**Algoshop.** 2003. Principal Investigator.  
Informatics Department, Institut Teknologi Bandung  
Research on creating an online programming teaching system through the use of a game application.

**E-learning Platform.** 2003. Principal Investigator  
Informatics Department, Institut Teknologi Bandung  
The creation of a simple e-learning platform that is used both for creating and also show simple content.

**Web Transcoding for the Blind.** 2003-2005. Research Assistant  
Health Information Management Department, SHRS, University of Pittsburgh  
Creation of transcoding websites to make it more accessible and usable for people with blindness.

**Natural Motion Generation,** 2005-2010. PhD Dissertation topic at the Computer Science Engineering Department, Michigan State University.  
Generation of natural motion based on natural spaces created using actual motion captured data.

## **Publications**

**Natural Pose Generation from a Reduced Dimension Motion Capture Data Space,** Paper presented at the International Symposium on Visual Computing 2009, Las Vegas, Nevada.

Authors : Reza Ferrydiansyah, Charles B. Owen

**An Auto Grading System for Criteria-based Tests in a Computer Competency Course,** Virtual Presentation for the E-Learn 2009 Conference, Vancouver Canada.

Authors : Reza Ferrydiansyah, Felicia Berryman, Jo Smith, Daniel Rairigh

**Understanding web documents: finding pagelets for transformation using structural patterns,** Published in the International Journal of Web Engineering and Technology, Vol 4 No 3 Page 313-335 2008.

Authors : Reza Ferrydiansyah, Bambang Parmanto

**Accessibility Summarization and Simplification in a Template-based WEB Transcoder,** Published in the Journal of Web Engineering, Vol 5 No 4 2006, Rinton Press, New Jersey.

Authors : Bambang Parmanto, Andi Saptono, Reza Ferrydiansyah, Lijing Song, I Wayan Sugiantara, Stephanie Hackett

**Programming Exercises via Algoshop: A Web Based Multiplayer Game,** Presented at the International Conference on Information Integration and Web-based Applications and

Services 2006, Yogyakarta, Indonesia.  
Authors : Reza Ferrydiansyah, Inggriani Liem

**AcceSS: accessibility through simplification and summarization**, Presented at the International Cross-Disciplinary Workshop on Web Accessibility 2005.  
Authors : Bambang Parmanto, Reza Ferrydiansyah, Andi Saptono, Lijing Song, I Wayan Sugiantara, Stephanie Hackett

**Accessibility Transformation Gateway**, Presented in Hawaii International Conference on System Sciences, 2005.

Authors : Bambang Parmanto, Reza Ferrydiansyah, Xiaoming Zeng, Andi Saptono, I Wayan Sugiantara

**Transcoding Biomedical Information Resources for Mobile Handhelds**, Presented in Hawaii International Conference on System Sciences, 2005.

Authors : Bambang Parmanto, Andi Saptono, Reza Ferrydiansyah, I Wayan Sugiantara

**An XML Based Report Writer Component**, Paper presented on APCC 2002 Bandung, September 2002.

Authors : Iping Supriana, Wikan Danar Sunindyo, Reza Ferrydiansyah

**Information Dispersal Using SQRP: Short Query Response Protocol**, Paper presented on APCC 2002 Bandung, September 2002.

Authors : Reza Ferrydiansyah, Etta Erinda Enggarini, Veriyanta Kusuma