

# Yan Dai

## PERSONAL DATA

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DATE OF BIRTH: 27 December 1989  
VISA STATUS: Resident Visa  
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GITHUB: <https://github.com/alvindaiyan>

## CAREER OBJECTIVE

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Seeking a role in software development and programming of webapp, mobile and middle-ware, that will add to my practical skills and working experience. I am hard working, reliable and keen to work in a forward thinking team. I am creative, independent and a good communicator with a desire to acquire new skills as well as advance existing skills.

My aim is to work as a software architect, software developer or software tester, eventually having responsibilities in software architecture, business analysis and project management.

## TECHNICAL SKILLS

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SKILL DESCRIPTION	EXPERIENCE	LEVEL
PROGRAMMING SKILL		
Java (J2SE, J2EE)	Paid	Advance
Unix/Linux	Practical	Intermediate
Go	Practical	Intermediate
Android Development	Academic	Basic
C#	Paid	Basic
Scala	Practical	Basic
DATABASE PROGRAMMING		
SQL Server	Practical	Intermediate
MySQL	Practical	Intermediate
PostgreSQL	Paid	Intermediate
Cassandra	Paid	Intermediate
WEB DEVELOPMENT		
SpringMVC, JAX-RS	Paid	Basic
HTML & CSS	Paid	Basic
Javascript & JQuery	Paid	Intermediate
JSP	Paid	Intermediate
PROJECT MANAGEMENT		
Agile Methodology	Practical	Intermediate

## EDUCATION

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- 2009-2013 Bachelor of Engineering (Hons) in SOFTWARE ENGINEERING,  
**Victoria University of Wellington**, Wellington  
Honours Project: "PSO for Feature Construction and Binary Classification"  
Published Paper: *New Representations in PSO for Feature Construction in Classification*  
Advisor: Prof. Mengjie ZHANG
- 2008-2009 Certificates in English Proficiency and Foundation Studies  
**Victoria University of Wellington**, Wellington

## WORK EXPERIENCE

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NOV 2013-CURRENT	<p>Software Engineer at SYL RESEARCH LTD., Wellington</p> <p><i>Enterprise Search Engine Using Java</i></p> <p>Developed new Java agents for IBM LotusNotes, and used commercially.</p> <p>Developed new Java agents for Google Drive, Evernote, Dropbox and Twitter, and used internally.</p> <p>Developed a module (Java, <a href="#">Apache POI</a>) for extracting embedded documents from MS Word, Excel and Powerpoint. This is used by syl 2.1, and syl 2.5 platform.</p> <p>Main Developer for WordPerfect Document parsing function and used by syl 2.1 and syl 2.5 platform.</p> <p>Developed a RESTful API (JAX-RS using Jersey) for metadata services in syl 2.1 and syl 2.5 platform.</p> <p>Researched on topic related to Optimal Character Recognition.</p>
JAN 2013-MAR 2013	<p>Software Engineer (Summer Intern) at FRONDE SYSTEMS GROUP, Wellington</p> <p><i>Auto Billing Reporting System in Java</i></p> <p>Requirements analysis for understanding the complex charging rules and implementing these complex rules.</p> <p>Software Architecture design: designing the basic structure of the system, helping with deciding the programming language and demonstrating the software architecture to the stakeholder.</p> <p>Software Design: using UML to design the software, interface design and demonstrating the software design to the stakeholder.</p> <p>Team Management as a Scrum Master for our agile methodology.</p>
NOV 2011-FEB 2012	<p>Software Engineer at BEIJING SHENZHOU AEROSPACE SOFTWARE TECHNOLOGY CO., LTD, Beijing, China</p> <p><i>Knowledge based engineering management project for China Aerospace Science &amp; Industry Corp (CASIC)</i></p> <p>Help with requirements analysis for the functions of knowledge acquisition, assessment of the problem, revision and evaluation system.</p> <p>Implemented the online document viewing system which convert the MS document to Adobe Flash by Java &amp; Linux Command-line.</p> <p>Research on the related algorithm such as the Genetic Programming, Support Vector Machine, Bayesian Network for data mining, search engine and Auto error detection function.</p> <p>Research on Java implementation plan for using AI algorithms (Genetic algorithm) to achieve a particular objective.</p>
AUG 2013-JAN 2014	<p>Software Developer (Part-time) at PRICETECH, Wellington</p> <p><i>Web Based Applications Using .Net</i></p> <p>Maintenance of existing Pricetech Client Applications.</p> <p>Software development using C# and ASP.Net for the web-based price application.</p> <p>Software requirements gathering, including meeting clients, software requirements design.</p>
NOV 2012-FEB 2013	<p>Research Assistant at VICTORIA UNIVERSITY OF WELLINGTON, Wellington</p> <p><i>Evolutionary Computation for Data Manipulation and Using Particle Swarm Optimisation (PSO) for Feature Construction</i></p> <p>Published Paper: <a href="#">PSO for Feature Construction and Binary Classification</a></p> <p>Research and Design on the related algorithm for feature construction using PSO which is one of the very first research in this area.</p> <p>Implementing the designed algorithm in Java.</p> <p>Recording and analysing the experiment results.</p>
MAR 2012-JULY 2013	<p>Tutoring at VICTORIA UNIVERSITY OF WELLINGTON, Wellington</p> <p>Tutoring on the Engineering 101, Computer Science 261 and Network Engineering 241 course.</p> <p>Tutoring lab sessions attended by up to 40 students.</p> <p>Assignment marking.</p> <p>Running help desk for up to 20 students each week.</p>
FEB 2012-JUNE 2012	<p>Volunteer Software Engineer at HABITAT FOR HUMANITY, Wellington</p> <p><i>Database system for storing the Habitat for Humanity project information</i></p> <p>Requirements analysis for the input data the customer wants to store into the system, how the customer wants to search the data.</p> <p>Team management such as holding an achievement meeting and daily scrum standups, helping with deciding the project scope.</p> <p>Java implementation (Java SE, Git, SQL).</p>

## ACHIEVEMENTS

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Membership of IITP

Honours Degree of Engineering in Software Engineering and Achieving a B+ average for all past four years courses

Have published two papers for Genetic and Evolutionary Computation Conference (GECCO) 13 and EvoApps 2014

Deciding to take on the challenge of study and a career overseas, despite being offered a place at a first class university in China

## INTERESTS AND ACTIVITIES

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Technology, Reading, Programming

Have been learning and playing the accordion for nine years.

## LANGUAGES

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ENGLISH: Fluent

CHINESE: Mother tongue

## REFEREES

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*Peter De Vocht*

*Founder & Chief Scientist*

Syl Semantics

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