

# Yan Dai

## PERSONAL DATA

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DATE OF BIRTH: 27 December 1989  
VISA STATUS: Resident Visa  
ADDRESS: 5 Fairview Crescent, Kelburn, Wellington, New Zeland  
PHONE: 021 023 82956  
EMAIL: [alvindaiyan@gmail.com](mailto:alvindaiyan@gmail.com)  
GITHUB: <https://github.com/alvindaiyan>

## CAREER OBJECTIVE

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I have over 3 years' experience in building enterprise and web based application. 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 full stack software developer, 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	Practical	Intermediate
AngularJS	Practical	Basic
DATABASE PROGRAMMING		
SQL Server	Practical	Intermediate
MySQL	Practical	Intermediate
PostgreSQL	Paid	Intermediate
Cassandra	Paid	Intermediate
WEB DEVELOPMENT		
JSP	Paid	Advance
SpringMVC, JAX-RS	Paid	Intermediate
HTML & CSS	Paid	Intermediate
Javascript & JQuery	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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JAN 2016-CURRENT	<p>Software Engineer at IPAYROLL LTD, Wellington</p> <p><i>A Full Service Payroll System</i></p> <p>Developed customized financial report regarding of specific requirement.</p> <p>Developed a automated API documentation system using Swagger-UI, Springfox.</p> <p>Developed new features and maintained system and API by Java, postgresSQL, Spring framework.</p> <p>Developed Time and Attendance front end system with AngularJs.</p>
NOV 2013-DEC 2015	<p>Software Engineer at SYL RESEARCH LTD., Wellington</p> <p><i>Enterprise Search Engine Using Java (SYL Platform 2.0, 2.1 and 2.5)</i></p> <p>Developed new Java crawler for IBM LotusNotes, and used commercially.</p> <p>Optimised the Java crawler for IBM LotusNotes to double the performance.</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>Designed and Developed a responsive web based User Interface prototype using HTML5, CSS3 and Bootstrap.</p>
JAN 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>Implemented research model in Java and eventually used in production environment .</p> <p>Research on Java implementation plan for using AI algorithms (Genetic algorithm) to achieve a particular objective.</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>
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 developement 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 and Recording and analysing the experiment results.</p>

## ACHIEVEMENTS

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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.

Have developed a service-based, open-sourced instant messaging application using spare time, this project is hosted on [github](#).

Volunteer Software Engineer at Habitat for Humanity to help with their content management system.

## INTERESTS AND ACTIVITIES

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Technology, Reading, Programming

Have been learning and playing the accordion for nine years.

Writing technical blogs, you can find my blog at <http://alvindaiyan.github.io/>

## LANGUAGES

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ENGLISH: Fluent

CHINESE: Mother tongue

## REFEREES

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*Peter De Vocht*

*Founder & Chief Scientist*

Syl Semantics

Phone: +64 (21) 0215 2225

Email: [peter@peter.co.nz](mailto:peter@peter.co.nz)

Address: Level 1, Featherston Tower, 23 Waring Taylor Street, Wellington, 6145 New Zealand

*Wei Ren*

*Technical Project Lead*

PriceTech Ltd

Phone: +64 21 263 5379

Email: [wei.ren@pricetech.co.nz](mailto:wei.ren@pricetech.co.nz)

Address: Level 4, 50 Manners Street, Wellington, New Zealand

*Hongjun Wang*

*Project Manager*

Beijing ShenZhou Aerospace Software Technology Co., Ltd

Phone: +86 10 134 011 83030

Email: [wanghongjun@bjsasc.com](mailto:wanghongjun@bjsasc.com)

Address: 28 Yongfeng Road Haidian, Beijing, China