Yan Dai

Personal Data

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
github:	https://github.com/alvindaiyan

Career Objective

Seeking a role in software development and programming of webapp, mobile and middleware, 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, eventually having responsibilities in software architecture, business analysis and project management.

Technical Skills

Skill Description	Experience	Level
Programming Skill		
Java (J2SE, J2EE)	Paid	Advance
Unix/Linux	Practical	Intermediate
Go	Practical	Intermediate
Android Development	Practical	Intermediate
C#	Paid	Intermediate
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
Google Analytics	Practical	Basic
Project Management		
Agile Methodology	Practical	Intermediate

Education

2009-2013   Bachelor of Engineering (Hons) in Sofware 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

Nov 2013-Current | **Software Engineer at Syl Research Ltd., Wellington**
Enterprise Search Engine Using Java (SYL Platform 2.0, 2.1 and 2.5)

Developed new Java agents for IBM LotusNotes, and used commercially.
Developed new Java agents for Google Drive, Evernote, Dropbox and Twitter, and used internally.
Developed a module (Java, Apache POI) for extracting embedded documents from MS Word, Excel and Powerpoint. This is used by syl 2.1, and syl 2.5 platform.
Main Developer for WordPerfect Document parsing function and used by syl 2.1 and syl 2.5 platform.
Developed a RESTful API (JAX-RS using Jersey) for metadata services in syl 2.1 and syl 2.5 platform.
Researched on topic related to Optimal Character Recognition.

Aug 2013-Jan 2014 | **Software Developer (Part-time) at PriceTech, Wellington**
Web Based Applications Using .Net

Maitenance of existing Pricetech Client Applications.
Software developement using C# and ASP.Net for the web-based price application.
Software requirements gathering, including meeting clients, software requirements design.

Jan 2013-Mar 2013 | **Software Engineer (Summer Intern) at Fronde Systems Group, Wellington**
Auto Billing Reporting System in Java

Requirements analysis for understanding the complex charging rules and implementing these complex rules.
Software Architecture design: designing the basic structure of the system, helping with deciding the programming language and demonstrating the software architecture to the stakeholder.
Software Design: using UML to design the software, interface design and demonstrating the software design to the stakeholder.
Team Management as a Scrum Master for our agile methodology.

Nov 2011-Feb 2012 | **Software Engineer at Beijing ShenZhou Aerospace Software Technology Co., Ltd, Beijing, China**
Knowledge based engineering management project for China Aerospace Science & Industry Corp (CASIC)

Help with requirements analysis for the functions of knowledge acquisition, assessment of the problem, revision and evaluation system.
Implemented the online document viewing system which convert the MS document to Adobe Flash by Java & Linux Command-line.
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.
Research on Java implementation plan for using AI algorithms (Genetic algorithm) to achieve a particular objective.

Nov 2012-Feb 2013 | **Research Assistant at Victoria University of Wellington, Wellington**
Evolutionary Computation for Data Manipulation and Using Particle Swarm Optimisation (PSO) for Feature Construction
Published Paper: *PSO for Feature Construction and Binary Classification*

Research and Design on the related algorithm for feature construction using PSO which is one of the very first research in this area.
Implementing the designed algorithm in Java and Recording and analysing the experiment results.

Mar 2012-July 2013 | **Tutoring at Victoria University of Wellington, Wellington**

Assignment marking and Tutoring on the Engineering 101, Computer Science 261 and Network Engineering 241 course.
Tutoring lab sessions attended by up to 40 students.
Running help desk for up to 20 students each week.

Feb 2012–June 2012 | **Volunteer Software Engineer at Habitat for Humanity, Wellington**
Database system for storing the Habitat for Humanity project information

Team management such as holding an achievement meeting and daily scrum standups, helping with deciding the project scope.
Java implementation (Java SE, Git, SQL).

Achievements

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

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

Interests and Activities

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

English: Fluent
Chinese: Mother tongue

Referees

Peter De Vocht

Founder & Chief Scientist
Syl Semantics
Phone: +64 (21) 0215 2225
Email: 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
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
Address: 28 Yongfeng Road Haidian, Beijing, China