

Yan Dai

PERSONAL DATA

DATE OF BIRTH: 27 December 1989
VISA STATUS: Resident Visa
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CAREER OBJECTIVE

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, 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	Academic	Basic
C#	Paid	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
Google Analytics	Practical	Basic
PROJECT MANAGEMENT		
Agile Methodology	Practical	Intermediate

EDUCATION

- 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

NOV 2013-CURRENT	<p>Software Engineer at SYL RESEARCH LTD., Wellington <i>Enterprise Search Engine Using Java (SYL Platform 2.0, 2.1 and 2.5)</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, Apache POI) 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 & 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 & 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: PSO for Feature Construction and Binary Classification</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>
MAR 2012-JULY 2013	<p>Tutoring at VICTORIA UNIVERSITY OF WELLINGTON, Wellington</p> <p>Assignment marking and 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>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>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

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

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