WATT Pei Yi

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Nationality: Singaporean | Race: Chinese

PROFESSIONAL EXPERIENCE

Feb 2017 – Present: National University Health System (NUHS)

Research System Analyst, University Medicine Cluster

- ❖ Technology Researcher
    - ▪ Implement Informatics for Integrating Biology & the Bedside (i2b2) on in-house server

Mar 2010 – Feb 2017: A*STAR Institute for Infocomm Research (I2R)

Research Engineer, Data Analytics Department

- ❖ T-Up @ OneEmpower Pte Ltd (May 2015 – Oct 2015)
    - ▪ Data Pre-processing
    - ▪ Feature Engineering
    - ▪ Unit Testing
- ❖ Technology Researcher
    - ▪ Android Applications
    - ▪ Semantic Applications
    - ▪ Ontology Tools
    - ▪ Text Mining
    - ▪ Privacy Preservation
- ❖ Technology Consultant and Developer for Industry Partners
    - ▪ LiveableCity
        - ▪ Collaboration project with SUTD
    - ▪ McLaren Joint Lab
    - ▪ SingTel Joint Lab
    - ▪ DBS Joint Lab
    - ▪ A*STAR Collaborative Commerce Marketplace
    - ▪ Privacy Preserving Data Framework
    - ▪ Social Media Data Aggregator (4 Crawlers)
    - ▪ Social Media Sentiment Analysis Engine
        - ▪ Licensed in 2011
        - ▪ Applied to National Events in 2012 & 2013
    - ▪ Data Driven Diagnostic System
        - ▪ Health Monitoring in Production Machinery
        - ▪ Visual Configuration of Data Analytics Workbench
    - ▪ Text Analytics as a Service
    - ▪ Boeing
- ❖ Business Continuity Plan Appointment
- ❖ Mentored over 7 students

Dec 2008 – Feb 2010: Wireless Data Services Singapore

Software Developer

- ❖ E-learning Systems for Schools and Companies

- ❖ Kiosk System for Telecommunication Companies
- ❖ Interactive Guides for Mobile Devices
    - ▪ English/Arabic Language Interface

Jan 2007 – Jun 2007: StarComLog International Logistics (Shanghai) Ltd

Application Developer *(Industrial Attachment)*

- ❖ Design and Implement City Management Platform
    - ▪ Senses, Reports and Archive Faults in Public Facilities and Infrastructure
    - ▪ Mobile Dashboard
    - ▪ Chinese Interface

Jul 2004 – Nov 2004: Sun Microsystems Pte Ltd

Application Developer *(Industrial Attachment)*

- ❖ Sales Database Administrator
- ❖ Designed and Implemented Query and Reporting System for Sales Data

TECHNICAL SKILLS

- ❖ **Programming Languages:** Java, ActionScript, Perl, Python, R Programming
- ❖ **Web Development Languages:** JSP, PHP, HTML, CSS, JavaScript
- ❖ **Databases:** MySQL, Microsoft SQL Server, Sesame RDF Triplestore, MongoDB, Postgresql
- ❖ **Operating Systems:** Windows, Sun Solaris, CentOS, MacOS, Ubuntu
- ❖ **Design:** UML

PROFESSIONAL DEVELOPMENT & CERTIFICATION

- ❖ IT-DD-403S-1 Develop Technical Detailed Design
- ❖ NICF – Object Oriented Design Patterns
- ❖ Prognostics and System Health Management
- ❖ Data Manipulation with IBM SPSS Modeler
- ❖ Data Mining Modeling

EDUCATION

- ❖ **Bachelor of Engineering in Computer Science (Honors) 2nd Class Upper**,
  Nanyang Technological University (NTU), 2005 – 2009
- ❖ **Diploma with Merit in Business Information Technology**,
  Singapore Polytechnic (SP), 2002 – 2005

ACHIEVEMENTS AND AWARDS

- ❖ MTI Innovation Award, 2013
- ❖ I2R Team Player Award, 2011
- ❖ Tata Consultancy Services Gold Medal, AY2008/09
- ❖ NTU Hall Main Committee, Publicity Assistant Director, AY2006/07
- ❖ NTU Dean's List, AY2005/06
- ❖ Marit Natalie Thome Scholarship, AY2003/04 & AY2004/05
- ❖ SP Model Student, AY2003/04
- ❖ SP Director's Roll for Academic Excellence, AY2003/04