WING CHEONG YIP

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OBJECTIVE

To work in an environment that provides continual personal and intellectual challenge, as well as to gain personal fulfilment through applying my skills and knowledge to a range of engineering projects that can help improve the efficiency, competitiveness and safety of an organisation.

Furthermore, to promote the art of software craftsmanship and use of software design principles to meet the long term goals and needs of the business.

SKILLS

General

- Over 15 years programming experience across multiple stacks and languages
- Worked through all phases of an application's life from new greenfield projects, to BAU, to operations and to production support
- Exposure to multiple SDLC methodologies including Waterfall, Agile - Scrum and Kanban
- Exposure to complete SDLC from requirements gathering/grooming/story breakdown, to design and build, testing, deployment and implementation/release/change management
- Exposure to DevOps and Continuous Integration/Deployment

Skills

- Significant understanding of software design principles such as KISS/DRY/YAGNI/TDD/SOLID and use of design patterns
- Significant JavaScript programming skills with extensive knowledge of ES5/ES6 and Node.js + Express platform and tooling using npm/yarn
- Significant UI/UX design and web application development skills with:
  - HTML5, CSS, JS/jQuery
  - Web frameworks such as AngularJS, Angular/RxJS/NgRx
- Significant Java programming skills with extensive knowledge of JSE and JEE programming environments (Servlets, JSP/JSTL, EJBs)
- Significant experience developing software using the Spring framework including Spring Security, Spring MVC, Spring Data and Spring Boot.
- Strong experience with TDD and test automation for unit, integration, contract and UI using libraries such as:
  - Junit, Mockito, PowerMock, EasyMock and Selenium for Java
  - Karma/Jasmine/Mocha/Chai/Jest/Protractor/TestCafe for JavaScript
  - Pact for consumer contract testing
- Exposure to Scripting using bash, awk and sed
- Exposure to Containerisation using Docker and Docker Compose
- Exposure to Continuous Build tools such as Bamboo/Jenkins and Infrastructure as Code principles
- Exposure to Cloud/Platform/Backend-as-a-service providers such as AWS, RedHat OpenShift, FireBase
- Exposure to multiple application server infrastructures including WebSphere Portal 5.1 to 8.0, WebSphere 5.1 to 7.0, Weblogic 10 and Tomcat
- Familiar with serverless providers such as AWS Lambda/Google Cloud Functions

Other Languages: Bash, Python, Groovy, VB6/VBA, SQL, COBOL, JCL

Tools:
  IntelliJ/Webstorm, VS Code, Git

EXPERIENCE

- **Transport of NSW (https://transportnsw.info/)**
  Technologies used
  Angular, RxJS, Typescript, HTML5, CSS3/Sass, Node/npm, Express, REST APIs, Swagger, Karma/Jasmine, Mocha, Chai, Sinon, Jest, Cypress, Docker + Docker Compose,

  Senior Software Engineer/Full Stack Developer   August 2019 – December 2021

  .info

  This is the website used across NSW for information about metro, train, bus, ferry, taxi and light rail services.

- **Tabcorp (**https://www.tabcorp.com.au/**)**
  Technologies used
  Angular 7+, RxJS, Typescript, HTML5, CSS3/Sass, Node/npm, Express, REST APIs, MongoDB, Swagger, Karma/Jasmine, Mocha, Chai, Sinon, Jest, Cypress, Docker + Docker Compose, Drone, Rancher

  Senior Software Engineer/Full Stack Developer   January 2019 – August 2019

  MaxSys 2 Models

  This is the Monitoring System for Poker Machines across NSW and catalogues the configurations to allow regulators to approve and ensure that are compliant.

  - Assisted in re-write Angular front-end to improve productivity and future development of components.
  - Built REST API micro services using swagger that used MongoDB as the persistence layer.
  - Built and maintained CI/CD pipeline using GitHub, Drone and Rancher

- **Macquarie Bank (www.macquarie.com/au/corporate)**
  Technologies used
  Angular 2+, RxJS, NgRx, HTML5, CSS3/Sass, Node/npm, Express, Karma/Jasmine, Jest, TestCafe, Java, J2SE, J2EE, Spring, Spring Boot, Gradle, Junit, Mockito/Easymock, REST, Docker + Docker Compose, OpenShift, Apigee, Jenkins, AngularJS, Apache Camel

  Senior Software Engineer/Full Stack Developer   June 2015 – December 2018

  Business Banking
  This is Macquarie's division for servicing the everyday banking needs of their small to medium business customers. It is currently a legacy application that is in the transition of moving to the digital platform that Personal Banking is using.
  Macquarie Business Online (Beta)
  - Established strong working relationships with business analysts, product owners and test analysts to ensure that product development is aligned with the larger business vision. In particular across business units/channels.
  - Leveraged my knowledge of the digital platform to assist in the re-architecture of the legacy web application from a build, design, deployment, operational and release perspective
  - Built and developed configurable shared UI components to be used cross-channel to keep a consistent look and feel across Macquarie's products
  - Production support of legacy Business Banking application

  Personal Banking
  This is Macquarie's division for servicing the everyday banking needs of personal customers including their savings, transactions, credit card, mortgage, cash management and wealth accounts. It is built on a relatively new digital platform that utilises modern IT architectures and infrastructure. This

platform is extended to over 25 Whitelabel partners including Woolworths, Myer, Jetstar, Aussie Home Loans, Yellow Brick Road and more.

Macquarie

- https://online.macquarie.com.au/personal/
- Developed and built BAU functionality and features
  - Browser notifications (Beta)
  - Online Reports
- Single handedly developed automated CI/CD build and deploy pipeline on Apigee/OpenShift platform to reduce manual effort and allow one-click deployments within minutes
- Co-ordinated and managed migration of infrastructure from WebLogic to Apigee/OpenShift platform
- Assisted in upgrading UI framework from AngularJs to Angular
- Responsible for unifying/merging code between Whitelabels and Macquarie codebase that had diverged for over 2 years and extracted out dynamic behaviour to ensure configurability

Whitelabels

- https://login.woolworthsmoney.com.au/portal/woolworths/
- https://www.creditcard.myer.com.au
- https://jetstar.openportal.com.au/portal/jetstar/
- https://ybr.openportal.com.au/portal/ybr/
- https://aussie.openportal.com.au/portal/ahl/
- Developed and built BAU functionality and features for over 20 Whitelabel partners
- Automated processes of generating whitelabel partner brands to reduce cycle time to deliver

- **AMP Financial Services (www.amp.com.au)**
  Technologies used
  Java, J2SE, J2EE, Spring, Thymeleaf, HTML5, jQuery, AngularJS, CSS3, WebSphere Portal, Gradle, REST, Junit, Mockito, Selenium/WebDriver

  Consultant – Senior Developer/Tech Lead   June 2012 – June 2015

  Customer Portal/Planner Portal/CSR Portal
  These are AMP's external and internal applications for customers, financial planners and CSRs to receive, promote and service their insurance, superannuation and financial advice information.

  Bett3r MVO

  - Assisted in prototype of "Cloud 2.0" to leverage more AWS ecosystem. This included the use of Route 53, EC2, S3, CodeDeploy and CloudFormation.

  Aladdin MVO

  - https://www.amp.com.au/ampoffers/planner-conference-2015
  - https://www.amp.com.au/ampoffers/planner-conference-2015/tally-ws
  - https://www.amp.com.au/promo/updatedetails
  - Pseudo-startup environment to bring new experimental and conceptual corporate superannuation and insurance products as soon as possible to a minimal set of high value customers to gauge their potential with the least amount of effort and risk.
  - Established strong working relationships with business analysts, product owners and test analysts to ensure that product development is aligned with the larger business vision.
  - Rapid application development with renewed technology stack:
    - Apache Tomcat within AWS EC2 cloud infrastructure
    - Automated build and deployment process via Jenkins and Gradle.

- Assisted in prototype of automated build and deployment process via AWS CodeDeploy and CloudFormation
- Automated acceptance and unit tests using Selenium Webdriver/Junit and Mockito
- Spring Boot utilizing many of Spring's subprojects such as Spring MVC, Spring Data, Spring Security and using Spring 4
- Serverside page via Thymeleaf templating
- Persistent storage using MongoDB
- REST API documentation using Swagger
- UI Development with HTML5, CSS3, jQuery, AngularJS
- UI Development tooling with bower and gulp
- SAML Single Sign on

Portal Enhancements – Find a Financial Planner
- https://www.amp.com.au/wps/portal/au/FindAFinancialPlanner
- http://www.charter.com.au/ (Find an Adviser)
- http://www.genesyswealth.com.au/ (Find an Adviser)

- Championed the introduction of AngularJS into the AMP Portal technology stack.
- Built full end to end solution including:
  - Re-usable Single Page Application (SPA) across Portal & Vignette environments
  - (Level 2 RMM) RESTful services to provide an API for planner profile search, detail, image retrieval and enquiry creation.
  - Backend logic to existing EJBs, Oracle RDBMS, Siebel CRM and Google Search Appliance (GSA) systems

ACMS – Introduction of Banking Products within Planner Portal

- Involved in the introduction of a rapid test-driven portlet development environment utilitizing the Pluto lightweight portlet container to provide platform-agnostic code
- Demonstrated use of TDD with >85% code coverage using Cobertura, Mockito and Junit

AXA Migration

- Migrated existing and duplicated planner functionality from the AXA web applications into the AMP Portal web applications

BAU/Release and 3rd Level Production Support

- Estimation, design and implementation of solutions for various new pieces of functionality
- Analysis and resolution of production defects.
- Provide feedback to project teams regarding quality of deliverables and tooling to help support future maintenance

- **CGI Australia (www.cgi.com)**
  Technologies used
  Java, Oracle ATG Dynamo, jQuery, HTML, CSS, Weblogic

  Consultant   January 2011 – June 2012
  Vodafone Shop (shop.vodafone.com.au)
  This is Vodafone's online e-commerce application for customers to view and order the latest phones, tablets, mobile broadband and plans.

  iPhone 4S – Upgrades Project

  - Implemented and designed backend interface to Oracle Fusion.
  - Improved existing architectural design of backend interfaces by creating common business delegate interface which can be subclassed with different implementations. This provides scalability/mobility to allow different backend calls to be made.

  BAU/Release

  - Improved page load times of business critical functionality by reducing HTTP requests via merging, compressing and minifying JS/CSS files
  - Improved performance of shop by introducing caching and pagination mechanism
  - Improved scalability and maintainability of code by abstracting and removing repetitiveness on the device details pages and by initiating a CSS restructure for overall website.
  - Provided strategy in long-term goal of improving quality of code.

- Quickly build up knowledge on e-commerce and the ATG platform.
- Design, develop and estimate BAU changes and production fixes

- **Westpac Banking Corporation (www.westpac.com.au)**
  Technologies used
  Java, J2SE, J2EE, Spring, XML, RAD, Maven, WebSphere Portal, HTML, jQuery, CSS

Senior Developer (Projects)   June 2007 – January 2011
Customer Information Systems/Service Online/ Transaction Account Opening
These are Westpac's internal applications for delivering non-value customer and account related information to customer service representatives (CSRs).

BAU/Release

- Engage business and clarify requirements for BAU items
- Design, document, estimate and plan BAU change requests
- Manage changes through DEV, SIT, SOCT, SVP and PROD with testing teams, business and overall implementation manager.

Digital Signatures Project (Portal Spring MVC/EJB/Web Services/DB2) - New work flow for branch staff to create/update notice of authorities which allows verification of customer's signatures online via Service Online (SOL) application.

- Led front-end team of developers, providing coaching and mentoring of junior developers
- Designed and developed the front end portlet workflow using Spring MVC, JSP, web services, EJB
- Reviewed and re-factored work to ensure quality of work and standards were followed.
- Engaged with business and testing teams to resolve gaps in requirements and defects in the system.
- Acted as Release manager and managed deployment process from development to production.

TAO SME Project (Portal Spring MVC/EJB/Web Services/DB2) - New work flow for small/medium businesses to register for Business Internet & Telephone Banking and setup different access levels for different users to their business accounts.

- Designed the workflow for the front end UI and the backend integration with external applications using web services and EAI/MQ. This involved creating high level class diagrams and sequence diagrams.
- Engaged with other application teams for integration of software
- Developed front end UI using Spring MVC, JSP, EJBs
- Managed deployment process from development to production.

SOL PLAB Project (Portal Spring MVC/EJB) - Enabling searching of private label customers within existing Service Online (SOL) application.

- Engaged with business to gather, analyse requirements to determine feasibility.
- Provided high level design and estimate of effort of changes required
- Designed and implemented front-end changes using Spring MVC/JSP/JavaScript
- Provided assistance to other developers in backend functionality using EJB to connect to mainframe backend via EAI/MQ
- Used Maven2 to build & package software artefacts
- Managed deployment process from development to production using XMLAccess/JACL/ADAM scripts

AML Project (Portal Spring MVC-Webflow/EJB/Web Services/XML) - New work flow to identify personal/organisational customers due to compliance with new anti-money laundering/counter-terrorism legislation.

- Designed and developed an inter-portlet communication framework for the use of generic portlets in multiple applications.
- Created unit tests and automated regression tests for this framework in JUnit
- Integrated portlets into multiple applications with the use of this framework.
- Involved in creation of XMLaccess/JACL scripts to deploy software into multiple environments.

Service Desk Analyst   February 2007 – May 2007
Enterprise Services - ITSS Service Desk
- Communicated with customers and engaged with Application team to ensure a timely resolution of incidents/Service Requests.
- Improved the processes within department by automating routine tasks using VBA.

Analyst Programmer   February 2006 – January 2007
WIB - International Trade - Trade ASP Project
- Assisted in the design, build and implementation of Release 11 for the BankTrade system.
- Migration of COBOL batch programs from VSAM to DB2.
- Analysis and Resolution/Fixing of Issues for BankTrade system.
- Employed an automation process for interfacing BankTrade to BoleroAdvise following the appropriate standards using VB6.
- Preparation of user guides, technical specifications and testing plans for applications that were developed.
- Provided coaching to less experienced/new team members.

- **Card Smart Consulting (www.card-smart.com.au)**
  Technologies used
  COBOL, JCL, ISPF, FileAid, Expediter, HTML, CSS, JS and ASP VBscript

Associate Consultant   September 2003 – January 2006
Certegy Card Services
- Analysis and Resolution/Fixing of Defects for Base2000 system.
- Assisted in the research and setup of a Global Test Region.

Card Smart Infobase Website
- Preparation of user requirements, technical specifications and testing scripts for web pages that were developed.
- Development and refinement of web site.

EDUCATION

- **AIM Tech Training: Mainframe Technical Skills Course**
- **University of New South Wales: Bachelor of Computer Engineering/Master of Biomedical Engineering (1999 – 2003) – 2nd Class Honours, 1st Division**

REFERENCES

Available upon Request