**Arie Hadipriono Tan, Ph.D.**

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**PROFILE**

Software Engineer and Developer with four years of experience skilled in Agile, full-stack development, and multiple languages, adept at methodical problem-solving, fostering cross-functional collaboration, and flexibility in learning new software frameworks and paradigms.

**KEY SKILLS**

**Programming Languages** Java, Python, JavaScript, C#, VBA, R, MATLAB

**Databases** PostgreSQL, Oracle, Microsoft SQL Server, SSMS, Gaia Oracle Service (GOS)

**Tools & IDE** Eclipse, IntelliJ, Microsoft Visual Studio, Google Earth Engine, Acumatica, Alteryx Designer

**Technologies** .NET, Spring, Spring Boot, Apache Tomcat, REST APIs, Splunk, Machine Learning, Fuzzy Logic

**Leadership** Project Management, Quality Assurance, Compliance, Best Practices, Process Improvement

**CERTIFICATIONS**

* **AWS Certified Cloud Practitioner** – Amazon Web Services, 12/2023
* **Oracle Certified Associate, Java SE 8 Programmer** – Oracle University, 09/2020
* **Certified Entry-Level Python Programmer** – Python Institute, 11/2019
* **Certified Associate Python Programmer** – Python Institute, 06/2024
* **IBM Data Science Professional Certificate** – pending

**PROFESSIONAL EXPERIENCE**

**Software Engineer** **05/2023 – 03/2024**

*JPMorgan Chase & Co., Columbus, OH*

* Worked as a Software Engineer in the Consumer & Community Banking segment of a top financial firm, developing and maintaining a proprietary REST API with a Java/Spring Boot backend, designed to enable third-party companies to verify eligibility for prospective customers to obtain Chase-backed credit cards.
* Updated the API codebase from Java 11 to Java 17 by updating the overarching Spring Boot-based framework.
* Quickly adapted to a fast-paced, flexible work environment integrating Agile/Scrum methodology while facilitating and approving pull requests for feature changes and supervising software deployments from UAT to Production, using Splunk as the primary means of monitoring and organizing issue logs, and focusing on test-driven development and continuous integration.
* Migrated the acting Gaia Oracle Services database for the team API to a more economical performance tier in line with company standards, yielding a 15% reduction in database costs.
* Pioneered company-wide efforts to migrate their infrastructure from a private cloud to an AWS-based cloud, taking part of massive initiatives and investments to become cloud proficient, thereby becoming an AWS Certified Cloud Practitioner.

**Software Developer** **01/2022 – 02/2023**

*Acumatica, Westerville, OH*

* Using C# in Microsoft Visual Studio in a .NET framework, maintained the backend of Acumatica cloud ERP software, oversaw team branch development for each successive build release, and set up smoke tests, manufacturing team-specific tests, and breaking change tests via the use of Jira project management software.
* Responsible for developing and maintaining Acumatica builds as a full stack developer in an Agile/Scrum work environment, which included resolving bug fixes, feature requests, and support requests for various builds and instances for a variety of customers.
* Diagnosed and maintained technical support for database and ETL functionality of Acumatica, streamlining Microsoft SQL Server queries to enhance productivity threefold.
* Implemented side-panel functionality in the frontend UI of the 2023R1 release of Acumatica, a feature that would be presented at the Acumatica Summit 2023.

**Data Analyst** **12/2020 – 10/2021**

*Beek Consulting Ltd., Dublin, OH*

* Fulfilled financial analysis on behalf of KPMG related to audit readiness, providing technical advice related to financial reporting and auditing.
* Provided technical assistance to government personnel (Defense Logistics Agency) in the development of general ledger accountant (GLAC) reconciliations, transactional data validation, accounting corrections, and reversals, beginning balance analysis, and trial balance management.
* Streamlined workflows for processing financial records related to monthly, quarterly, and annual close activities and analysis, via the use of Alteryx Designer.
* Automated Excel operations related to various budgets by generating macros in VBA, fully replicating manual procedures, and accelerating operational performance by 25%.

**Software Engineer** **12/2019 – 09/2020**

*HCL America, Inc., Dublin, OH*

* Served as technical support for Java backend software needs concerning the ENOVIA PLM Application powered by the 3DEXPERIENCE platform as a consultant for the American Honda Motor Company.
* Utilized web development software including CSS, JSP, JavaScript, and Apache Tomcat on specific projects in conjunction with SQL and Java 11 for full-stack development.
* Resolved technical tickets that were application-specific, documenting the solutions provided and performing root-cause analysis of any issues or concerns reported by engineering.

**EDUCATION**

**The Ohio State University • Columbus, OH 08/2014 – 12/2019**

Doctor of Philosophy (Ph.D.) in Geodetic Science

**The Ohio State University • Columbus, OH 08/2014 – 05/2018**

Master of Science (M.S.) in Geodetic Science

**The Ohio State University • Columbus, OH 09/2009 – 05/2013**

Master of Applied Statistics (M.A.S.)

**The Ohio State University • Columbus, OH 09/2007 – 06/2009**

Master of Science (M.S.) in Biochemistry

**The Ohio State University • Columbus, OH 03/2004 – 06/2007**

Bachelor of Science (B.S.) in Molecular Genetics

**CONFERENCES | PUBLICATIONS**

* Tan, F. H. & Tan, A. H. (2018) *Cultural Heritage of Ancient China: Technology of Stoneware, Clayware, and Metalware.* 6th International Cultural Administration Conference, July 2018, the University of International Business and Economics (UIBE) Beijing, China.
* Tan, A. H. (2014) *Recent* *Studies on Satellite Monitoring for the Investigation of Lakes and Flood-prone Areas*. Invited presentation at Parahyangan Catholic University, Bandung, Indonesia, May 8, 2014.
* Tan, A. H. & Tan, F. H. (2013) *Using Fuzzy Logic in Virus-Mediated Gene Therapy*. In: Gaol, F. L. (ed.) Recent Progress in Data Engineering and Internet Technology. Lecture Notes in Electrical Engineering 156, Vol.1. Springer, Berlin, Heidelberg.
* Tan, A. H. & Tan, F. H. (2011) *The Application of Fuzzy Logic to Assess the Use of Viruses in Gene Therapy*. Bali: Proceedings of the 2011 International Conference on Data Engineering and Internet Technology (Gaol, F. L., ed.), March 15-17, p. 1047. IEEE, Bali, Indonesia.