# Karim A. Ibrahim

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## SOFTWARE DEVELOPER

- Hands on experience in Java, Kotlin, Software Development Life Cycle, including planning and researching technologies.
- Database systems, data visualization, ETL and Hadoop infrastructure.
- Hands on experience with testing frameworks, TDD, UML modeling, software design patterns and database modeling and design.
- Solid understanding of web development concepts: Web services , J2EE, Microservices .
- Solid academic knowledge, high productive and result driven, able to effectively balance between delivery and research.

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| *Languages* | Java, Kotlin, C++, Python,SQL |
| *Frameworks* | Hibernate, myBatis, Amazon Web Services (AWS), PostgresSQL, Hadoop, Hive, Pig, Hcatalog, Python, Tableau, git, SVN, bamboo, cucumber, SSRS, SSIS, SSAS |
| *Databases* | MS SQL, PostgreSQL, Oracle, mysql |

**Software Developer** in Payment Team, Nov 2019 – present
**Hulu – Santa Monica, CA**

- Support & develop payment microservices
- Improve code quality by writing unit and automated test cases to increase code coverage.
- Automate the deployment process to aws using Spinnaker
- Create application dashboards to monitor and alert using datadog

**Sr. Software Engineer** in Sourcing Support Team, Nov 2018 –Nov 2019
**Software Engineer II** in Sourcing Support Team, March 2016 – Nov 2018
**Abercrombie & Fitch –** New Albany, OH

- Support & maintain non-merchandise vendor profile system
- Mentor offshore developer
- Improve code quality by writing unit and automated test cases to increase code coverage.
- Automate the deployment process using bamboo
- Create real-time tableau reports that help detecting fiber compliance issues
- Implement approval workflow to help with vendor fraud detection
- Use microservices to handle the JMS messages to oracle ESB.
- Support 3rd party supply chain applications as ecvision XpressCommerce
- Develop new feature using spring, hibernate and J2EE technology and oracle database
- Create new analytical reports to help business owners monitor work progress using Microsoft SSRS & Tableau

**Software Developer II** in Mobile Team, June 2014 -  March 2016:
**Cisco** Boxborough MA

- Write data layer using Hibernate and PostgreSQL.
- Design and develop a controller layer, used JUnit for writing unit tests.
- Run regression test cases for biweekly deployments.
- Gather business requirements and transform them to unit tests as part of TDD
- Collaborate with offshore teams on daily basis.

- Worked in an agile environment.

**Software/Business intelligence developer,** Oct. 2010 – Dec. 2011
**ITWORX –** Cairo, Egypt

- Design & build medium level data warehouse for customers (Department of transport, Abu Dhabi UAE).
- Generating analytical reports for business improvement using MS SSIS (SQL server integration services).
- Generate reports using MS SSRS (SQL server reporting services) & MS performance Point.

**Web Developer,** Jan. 2009 – Jan. 2010
**American University -** Cairo, Egypt

- Creating the backend and front end of the fellowship office using J2EE, Spring and Hibernate.
- Maintained legacy systems that used ASP.NET.

**Software Developer Intern,** Oct. 2008 – Nov. 2008
**CMIC (Cairo Microsoft Innovation Center),** Cairo, Egypt
**Academic Projects**

- Annotation Management in Scientific Databases: Expanding the functionalities of database management systems --- using PostgreSQL--- to improve scientists experience in utilizing the annotations.
- Large-Scale Data Analytics: mini-project of exploring crime rate in Seattle using of Hcatalog and evaluating its performance.
- Text categorization using Support Vector Machines: Comments from readers on articles from Alzoa.com (Arabic news website) are automatically classified to output a corresponding rating/ranking for the comment to indicate how much does the reader agree with the contents of the article.
- FusionDB: Conflict Management System for Small-Science Databases (Demo Paper): 22nd International Conference on Information and Knowledge Management, USA 2013

## EDUCATION

- **Master of analytics, 2019**, Harrisburg University of Science and Technology, Harrisburg , PA
- **Big data analytics course,2015**, Harvard Extension School, Cambridge, MA, USA
- **Master of science in Computer Science, 2014**, Worcester Polytechnic Institute, Worcester, MA, GPA:3.5
- **Positions**: Research assistant (01/2012 – 08/2013), Teaching assistant (09/2013 – 12/2013)
- **Bachelor's in computer science, 2008,** Cairo University, Egypt.  GPA: 3.70