

## VINAY VERGHESE

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### EDUCATION

**THE GEORGE WASHINGTON UNIVERSITY**, School of Business  
**Master of Science, Information Systems Technology**

**Washington, DC**  
May 2018

**VIT UNIVERSITY**, School of Computer Science and Engineering  
**Bachelor of Technology in Computer Science & Engineering**

**Vellore, India**  
May 2012

### PROFESSIONAL EXPERIENCE

#### FORD MOTOR COMPANY

*Full Stack Engineer (Contractor via Altimetrik Corp)*

**Dearborn, MI**  
Sep 2019 – present

- Implemented a map-based routing app that would optimize service schedules for a car dealership.
- Developed a front-end app using Angular/TypeScript that would interact with back-end micro-services written in Java.
- Contributed to a Python flask app that performed optimization of service schedules.
- Used Pair programming with Agile and Scrum methodologies for development.

#### CAPITAL ONE

*Software Engineer (Contractor via Hyperion Tech)*

**McLean, VA**  
Feb 2019 – Aug 2019

- Built microservices using Java Spring Boot, REST APIs and PostgreSQL for banking systems.
- Set up CI/CD pipelines and deployed applications on AWS ECS Clusters using Jenkins jobs.
- Worked on AWS SQS messaging systems that communicated between applications via FIFO Queues.
- Developed Integration Tests using Cucumber/Gherkin and ran Performance Tests using Apache JMeter to ensure resiliency of applications.

#### AL MULLA GROUP

*Software Engineer*

**Shuwaikh, Kuwait**  
Nov 2014 – Jul 2016

- Developed web applications used by various departments - Human Resources, Administration, Finance, Insurance, and Procurement that improved overall user experience and demonstrated an increase in the number of users.
- Automated previously manual processes such as Employee Leave, Business Travel, Internal Procurement, Insurance, Lease Renewal applications by implementing a workflow system that enhanced efficiency.
- **Tools Used:** Java/J2EE and Spring/Hibernate with JavaServer Faces and Oracle SQL, JasperReports.

#### COGNIZANT TECHNOLOGY SOLUTIONS

*Programmer Analyst*

**Chennai, India**  
May 2012 – Oct 2013

- Modeled web applications using an in-built tool – Cognizant Advance Apps (CA2).
- Performed Progression and Regression Testing of CA2 across various sprint release versions and released certified versions of the product for usage.
- Worked on documentation of CA2 by working on user manuals and video tutorials, thereby facilitating increased user involvement with the product and also allowing new users to be more familiarized with using the tool.

### ACADEMIC PROJECTS

#### DATA SCIENCE PROJECTS

Aug 2016 – May 2018

- Predicted MLB team Washington Nationals fan attendance for 2018 games using regression with R & visualizations in Tableau.
- Developed an optimization model to compile a dream team of 25 players for the Nationals having highest WAR, and within given constraints using Premium Excel solver.
- Analyzed clickstream data of online transactions for hotel bookings and Air France search engine marketing (SEM) campaign data, make recommendations on bid strategy, and conduct regression analysis to study factors influencing campaign using R & Excel.
- Developed a peer evaluation system for the university as part of capstone project, that helped students and professors work together to improve group projects experiences by introducing a rigid rating system for students to rate their team members' tasks using PHP and JavaScript.

#### AN EFFICIENT MECHANISM TO COMPARE PROMINENT

**DIMENSIONALITY REDUCTION ALGORITHMS ON A MICRO-ARRAY DATASET (*Dimensionality Reduction*)**

May 2012

- Conducted an extensive study on the existing algorithms in the same domain of Dimensionality Reduction, and published a paper titled 'A SURVEY OF DIMENSIONALITY REDUCTION AND CLASSIFICATION METHODS' in The International Journal of Computer Science & Engineering Survey (CSEIJ) in June 2012.
- Applied closely related dimensionality reduction techniques on microarray gene expression data and compared respective efficiencies with regard to processing speed and retrieval accuracy.

### SKILLS

**Languages:** Java, Python, TypeScript, JavaScript /HTML/CSS, SQL (PostGre, Microsoft), Bash

**Frameworks and Libraries:** Spring, Hibernate, JUnit, Mockito, Cucumber, Angular, React

**Tools:** Git, Linux, AWS (EC2, ECS, SQS), Pivotal, Maven, Gradle, JMeter, Jira, Rally, Docker, Jenkins, Tableau