

# Rajarshi Chattopadhyay

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## Summary

Software engineer with 4 years' experience in application engineer and web application development. Possess strong customer focus, ownership, urgency and drive to understand cross-functional system design and architecture to build highly scalable applications. High energy self-starter and proven team leader, willing to collaborate to build and improve products effecting departmental and company-wide initiatives. Ability to learn and adapt to new, complex development environments. Interested in data-driven, behavior-driven and test-driven Software Development.

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## Technical Skills and Tools

*Skills:* System Design Fundamentals, API Design, Distributed and parallel architecture, Data structures

*Programming:* Java (OOP), Python, Scala, HTML, CSS, JS | *Scripting:* Python, Bash | *Database:* RDBMS SQL, MySQL, NoSQL: Mongo

*Source Control:* Git | *Frameworks:* Spark, Maven, SBT, Spring Boot, MVC | *DevOps:* Docker, Jenkins | *Toolchain:* Jira, Confluence

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## Work Experience

**Professional projects** work samples: <https://likarajo.github.io/WorkSamples>

**Software Engineer Intern, Tesla** – Fremont, CA, United States (September 2019 – present)

- Maintained automation scripts and handled IT infrastructure access requests, which is strategically significant to the digital transformation efforts
- Collaborated with DevOps Engineers to support and manage Engineering infrastructures

**Software Development Engineer Intern, Copart Inc** - Dallas, TX, United States (May 2019 to August 2019)

- Designed efficient web application modules with complete test cases and CI/CD structure for special work orders and application enhancements.
- Developed RESTful web APIs and microservices using Test Driven Development, and Behavior Driven Development
- Documented application design for the business and prepared user guide for accessing APIs from the front end

**Software Systems Engineer, IBM Global Business Services, India** (December 2014 to July 2018)

- Led a 15-member team on daily basis providing Level 3 end-to-end application support to client furnishing 100% standard delivery as per Service Line Agreement (SLA), including good design documentation, unit testing, and peer code reviews.
- Performed Change and Release Management while providing technical with continuous feedback to stakeholders.
- Collaborated with internal departments and external vendors to manage large projects.
- Addressed and resolved business and application related technical problems and performed Root Cause Analysis for troubleshooting.
- Documented workaround instructions for end-users.
- Provided on-the-job training on application architecture and database overview during client and company workshops as extended assignments.
- Automated SQL scripts and developed Java UI for user view based on customer business requirements. Brought down the deployment time for database updates to 3 hours, increasing the productivity of the team.
- Automated daily queue status monitoring and reporting for the core application eliminating manual effort. Used IBM MQ Java library to fetch queue details and automated email notifications to stakeholders and support personnel using Unix Shell script and crontab proactive maintenance.
- Received Best Emerging Techie Award at A.P. Moller Maersk Diamond Awards 2016, IBM.

**Personal projects** on Data Science and Machine Learning: <https://likarajo.github.io/Projects>

- Predicting House Price using advanced regression model built using Kaggle House Prices dataset
  - Finding the closely associated words to a twitted word; Docker Image: likarajo/kinship
  - Finding news topics with Latent Dirichlet Allocation (LDA) by scraping news articles from CNN News website
  - Creating recommender system by Collaborative filtering and learning latent factors with Alternating Least Squares (ALS) algorithm  
Movie recommender using MovieLens dataset; Book recommender using IIF Book-Crossing Dataset
  - Creating clusters of different crimes in a region using Kmeans clustering
  - Predicting Breast Cancer with Support Vector Machine using Breast Cancer Wisconsin Dataset
  - Analyzing sentiment of a sentence with Logistic Regression using Sentiment Labelled Sentences Data Set
  - Classify cars as automatic or manual using Linear Support Vector Classifier, Decision Tree, and Logistic Regression, and predict mileage of cars using Linear Regression
  - Search top airports based on self-implemented Page Rank computed using their connections data from the Bureau of Transportation Statistics
  - Search movies based on self-implemented TF-IDF and Cosine-Similarity using movie plot summaries data from CMU Movie Summary Corpus
  - Self-implementation of Decision Tree and comparing it with Scikit Learn using MONK's Problems Data Set and Tic-Tac-Toe Endgame Data Set
  - Titanic survival prediction model with Decision Tree classifier (Ref: [www.kaggle.com/c/titanic](https://www.kaggle.com/c/titanic))
  - Data Science and Visualization on 911 calls data
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## Education

**Master of Science in Computer Science, The University of Texas at Dallas** (from August 2018 to Aug 2020), GPA: 3.67

**Bachelor of Technology in Electronics Engineering, West Bengal University of Technology India** (from August 2010 to June 2014), GPA: 3.5

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**Activities, Volunteering, Leadership:** *Hackathon* – HackForHumanity at the University of Texas at Dallas (October 2018)

*Member and Volunteer* – Graduate Student Assembly, Indian Student Association, and Association of Computing Machinery at the UT Dallas