Kartik Dave

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https://www.linkedin.com/in/kartikdave24 | https://github.com/davekartik24 | Available: **May – Aug 2019**

EDUCATION

Master of Science in Computer Science	Dec 2019 (Expected)
Northeastern University, Seattle, WA	**GPA: 3.56/4**

Courses: Algorithms, Large-Scale Parallel Data Processing, Programming Design Paradigm, Information Retrieval, Foundations of AI, Cloud Computing

Bachelor's in Computer Science and Engineering	May 2015
G H Raisoni University, Nagpur, India	**GPA: 8.79/10**

Courses: Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks

TECHNICAL KNOWLEDGE

Languages	Java, Python , C#, C, SQL
Front-End/Web	REST, SOAP, HTML, CSS, D3.js
Databases	Greenplum, PostgreSQL, Oracle, DB2, MySQL
Frameworks	Hadoop, Spring Boot, Alexa Skills Kit for Java, Apache Pig
Web Services	Amazon EMR, AWS Lambda, Amazon S3, Amazon RDS
Tools	Apache Zeppelin, Talend, MicroStrategy, AppWorx

PROFESSIONAL EXPERIENCE

Software Engineer Intern, **Worldpay Inc. (formerly Vantiv),** Lowell, MA   May 2018 – Jan 2019
- Implemented **Java/C#/Python** SDKs for client facing API integrating eCommerce with payment processing platform.
- Developed Encryption Web Services Simulator (SOAP) and Sandbox (REST) in **Spring Boot** that simulates the production environment for eCommerce encryption and chargeback services.
- Used **Travis CI** for Continuous Integration and Deployment combined with **Codecov** ensuring complete code coverage and fault tolerance by writing **JUnit** and Integration test.
- Introduced new password recovery functionality in IQ web apps to fix the vulnerability associated with brute force login attack for a successful WhiteHat scan.
- As a runner-up team in North America Worldpay Hackathon, created a custom **Alexa Skill** in **Java** using **AWS Lambda** which enabled authorized merchants to get summarized transaction reports and real-time server status based on voice requests.

Software Engineer, **Tata Consultancy Services Pvt. Ltd.,** Pune, India   June 2015 – June 2017
- Led a team of 6 to design and implement physical data model of "Data Relationship Management" module.
- Wrote complex queries using **Greenplum** and integrated the data in **Aviation Finance Data Lake** using **Talend**.
- Migrated the entire **Oracle** database to **PostgreSQL** along with refactoring for high optimization.
- Automated the process of data loading in "Job Opportunity System" application using **Java, PL/SQL** and **AppWorx**.
- Developed an in-house application which helped the trainees to evaluate and compare their performance with their peers.

Project Intern, **Infocepts Pvt. Ltd.,** Nagpur, India   May – Aug 2014
- Owned a complete Business Intelligence project as a member of a team of 4.
- Executed all different phases like Data Modelling, Extraction, Transformation, Loading, Visualization, Reporting.

ACADEMIC PROJECTS

Predictive Analytics on Telemetry Data from HPE SimpliVity Systems   Spring 2018
- Designed node balancing algorithm using **Scala** and ran the algorithm on **Spark cluster**.
- Implemented data visualizations with **D3plus** library embedded in **Apache Zeppelin** notebook.

Quest – Search Engine   Fall 2017
- Developed a Search Engine in **Python** to find the top relevant result with snippets for a user query on Wikipedia pages.
- Evaluated different retrieval models like **BM25, tf-idf** to determine the best performance.
- Implemented **PageRank** algorithm to conduct link analysis and **focused crawler** to generate keywords-sensitive corpus.

Squash Game Simulation   Fall 2017
- Developed a single player Squash game in **Racket** programming language.
- Created an interactive interface providing control to user to change the state and difficulty level of the game.

Departmental Analysis of an Institute   Spring 2015
- Analyzed and transformed performance data of an institute into a dashboard using **Pentaho** and **MicroStrategy** tools.
- Used star schema and created denormalized **data warehouse** for maximum performance in **PostgreSQL**.