

# DAVID JOSEPH JOHNSON

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**Experienced Software Engineer with 2.7 years of professional experience, specializing in Backend Development (JavaScript, Python, DBMS and DevOps). Holds a Master's degree in Data Analytics (Statistical Modelling) and Bachelor's degree in Computer Science.**

## PROFESSIONAL EXPERIENCE

**Teaching Assistant** (Northeastern University, Boston, United States)

**September 2022 – June 2023**

- Facilitated teaching aid to 4 Professors (Brian Newton: Probability Theory and Introduction to Statistics (ALY6010), Na Yu: Data Warehousing and SQL (ALY6030), Vladimir Shapiro and Justin Grosz: Predictive Analytics (ALY6020))
- Provided reliable guidance to 97 students by assisting with assignments, clarifying concepts, improving collaboration skills, and conducting one-on-one mentoring and communication during office hours

**Software Engineer Intern** (Shell Tech Works, Boston, United States)

**September 2022 – March 2023**

- Collaborated on developing a Well Classification Tool using NodeJs that streamlines work of geologists for Carbon Recapture
- Built common React component libraries (User-Feedback and Layout) to reduce coding time in Shell Development Teams
- Partnered with product owners in both non-technical and technical discipline to facilitate software design and solutions
- Developed a Test-case builder to aid 100% backend unit test coverage for 150+ well classifications
- Designed a proof-of-concept (POC) web scraper using Python to reduce manual data collection time and data acquisition costs
- Accounted to enhancing tool efficiency from 75% to 93%, through data validation and process improvements with client

**Associate Software Engineer** (KeyValue Software Systems, Kochi, India)

**June 2019 – August 2021**

- Developed 5+ NodeJS microservices (Warehouse Management service, Online Management service, Delivery Management service and so on) supporting B2B E-Commerce, enabling web and mobile applications
- Implemented Unit Testing on APIs using Mocha and Jest, yielding 85% test-coverage in SonarQube experiments
- Handled SQS and Lambda use cases in development, also implemented Boto3 to expedite DevOps processes
- Debug and resolved production bugs, reducing critical system issues by 90% and improving overall application stability by 50%
- Conducted knowledge transfer (KT) sessions to train and supervise 10+ trainees, resulting in a 50% reduction in onboarding time and a 20% increase in productivity within first 3 months of new hire

## ACADEMIC PROJECTS

**Data Analytics for OCR Startup in Portugal** (*R, Python, Azure, AWS Architecture*)

- Spearheaded implementation of data analytics in a document processing SaaS startup, resulting in a 25% increase in efficiency and a 15% reduction in processing errors
- Led a team of 5 students to pioneer a custom data analytics solution that enabled real-time insights for stakeholders
- Delivered data analysis reports, process management dashboards, and cloud architecture for real-time data analysis.

**Analysis of Cryptocurrencies** (*R, Python, SQL*)

- Data collection was executed using CoinMarketCap APIs (automated using Python scripts)
- Data Analysis (Correlation, ANOVA) was performed using R Programming and accomplished Data Warehousing using SQL

## EDUCATION

**Northeastern University**

Boston, United States

Master of Professional Studies, Data Analytics (GPA: 3.98 out of 4.0)

**June 2023**

**Rajagiri School of Engineering and Technology**

Kochi, India

Bachelors in Technology, Computer Science Engineering (GPA: 3.4 out of 4.0)

**July 2019**

## TECHNICAL EXPERIENCE

**Programming languages:** Python (NumPy, Scikit-learn), R (dplyr, Rshiny), JavaScript, TypeScript, C++, C#, SQL, Java

**Data Science:** Regression, Classification, Clustering, Feature Selection, Feature Engineering, Model Training & Deployment

**Web Development:** NodeJs, ReactJs, REST, GraphQL. **Databases:** PostgreSQL, MySQL, NoSQL

**Cloud Technologies and others:** Azure Studio, Azure DevOps, **AWS** (Amplify, EC2, Lambda, SQS, Redshift, CloudWatch, S3), Cloudera, Git, Agile Development, Postman, Tableau, MS Excel, PowerBI, Hypothesis Testing, Selenium, Kafka, ETL, Hadoop, MongoDB, Sqoop, CI/CD

## CERTIFICATIONS

**AWS Certified Cloud Practitioner**

**Northeastern University Experiential Network**