

# DAVID JOSEPH JOHNSON

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## EDUCATION

### Master of Professional Studies in Data Analytics

Northeastern University, Boston, MA

September 2021 – July 2023

GPA: 3.98/4.0

### Bachelor of Technology in Computer Science Engineering

Kerala Technical University, India

June 2015 – June 2019

GPA: 3.4/4.0

## TECHNICAL SKILLS

Back-end Technology: Node.JS, Java, Python, Spring Boot, Shell Scripting, Ruby on Rails  
Front-end Technology: HTML, CSS, Sass, JavaScript, Typescript, React, Angular, Redux, Babel  
Databases and DBMS: PostgreSQL, MySQL, NoSQL (MongoDB)  
DevOps/Cloud Tech: Terraform, GitHub, Jenkins, Azure Data Lakes, Heroku  
Testing tech and tools: Unit Testing, API Documentation, Selenium, Postman, Pandas, NumPy, npm, npx, Figma  
AWS services: DynamoDB, Lambda, CloudWatch, CloudFormation, S3, IAM, RDS, EC2, VPC, Route53

## PROFESSIONAL EXPERIENCE

### Software Development Engineer Co-op, Shell Tech Works, Boston, MA

September 2022 – March 2023

- Collaborated with Shell's geology team to architect and deploy a NodeJS-based oil well classification solution, optimizing carbon recapture processes and achieving a 38% efficiency boost in geologist workflow.
- Designed and deployed React component libraries, namely User-Feedback and Layout, which became integral to Shell Development Teams, leading to a 23% reduction in coding duration.
- Implemented a comprehensive Test-case builder, ensuring 100% backend unit test coverage for over 150 oil well classifications.
- Architected and launched a Python-based web scraper proof-of-concept (POC), achieving a significant 62% reduction in data collection and validation durations, while concurrently minimizing data acquisition expenses.

### Graduate Teaching Assistant, Northeastern University, Boston, MA

March 2022 – August 2022

- 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))
- Mentored 97 students across courses, enhancing collaboration and offering expert guidance.

### Associate Software Engineer, Keyvalue Software System, Kochi, India

June 2019 – August 2021

- Full time software development role at KeyValue - Blue Chip startup organization with 300% plus Growth in 22 months
- Developed 5+ pivotal NodeJS microservices, including Warehouse, Online, and Delivery Management systems, bolstering B2B E-Commerce capabilities for both web and mobile applications (React and React-Native).
- Accomplished OOP principles to engineer scalable and maintainable Mocha and Jest test frameworks, yielding 85% test-coverage in SonarQube experiments.
- Optimized CI/CD pipelines in collaboration with the DevOps team using AWS, achieving a 25% faster deployment, and ensuring automated, error-free software releases.

## ACADEMIC PROJECTS

### DevOps Transformation & Cloud Infrastructure Orchestration (Terraform, AWS)

- Created custom AMIs for application deployment and a unified CloudWatch agent for logging and metrics collection.
- Applied Terraform to provision and configure AWS resources, including EC2 instances, RDS, S3 bucket, and security groups, with encryption using a customer-managed key.

### Portfolio Website (NodeJS, React, Heroku)

- Architected and deployed a responsive portfolio website using Node.js and React, integrating direct email functionalities, resume download capabilities, and streamlined access to social media profiles, enhancing user engagement.

### DocDigitizer, Portugal (Python, R-Programming, AWS)

- Spearheaded a cross-functional team to innovate Data Analytics strategies for an emerging OCR-focused startup, resulting in a 30% increase in operational insights and decision-making accuracy.
- Leveraged data analytics techniques to optimize the Human-in-the-Loop process, enhancing efficiency by 40% and reducing manual intervention time by 25%.

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

- Extracted and aggregated data (ETL) via CoinMarketCap APIs, subsequently executing advanced statistical evaluations, including Correlation and ANOVA, to derive actionable insights.

## CERTIFICATIONS

AWS Certified Cloud Practitioner (MFVE6LD1VNE1Q83H), Northeastern University Experiential Network