Dheeraj Kapoor

**Senior Full Stack Developer | System Analyst | Solution Architect**

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# Summary

Experienced technology professional with over 14 years of expertise in application development, systems and data analysis, DevOps, and cloud-based solutions. Proven ability to deliver scalable, high-impact, and maintainable software across both public (Government of Alberta) and private sectors, including banking, telecommunications, and insurance. Skilled in modern web technologies such as Angular, NestJS, Node.js, MongoDB, and GraphQL, with deep experience in cloud platforms like Azure and AWS. Adept at implementing CI/CD pipelines and driving cloud-native application development. Recognized for a strong passion for modern web architecture, building scalable systems, and leading cross-functional teams to create solutions that empower both development teams and end-users.

# Skills

* **Languages:** TypeScript, JavaScript, Java, Python, SQL, C#, VBA
* **Frontend:** Angular, HTML/CSS, GoA Design System, Material Design, NGXS, Apollo client
* **Backend:** NestJS, Express, Node.js, GraphQL, Apollo, REST APIs
* **Databases:** MongoDB, MS SQL Server, Cosmos DB, MySQL
* **DevOps & Cloud:** GitHub Actions, Jenkins, Azure, AWS, OpenShift, Docker, Kubernetes
* **Monitoring:** Azure App Insights, Open Telemetry
* **ETL/BI:** SSIS, SSRS, SSAS, Power BI, ADF
* **Other:** Agile, Git, TFS, Nx, Microservices, CI/CD, Test Automation

# Experience

## Government of Alberta (May 2022 – Present)

**Roles:** Senior Full Stack Developer + Architect / Tech Lead  
**Projects:** Online Claims Reimbursement, FSCD Case Management, FSCD Intake, Funeral Benefits

* Designed and developed responsive, dynamic user interfaces using Angular, GoA Design System, and Material Design, ensuring scalability and maintainability.
* Built backend services with NestJS and GraphQL, integrating MongoDB for efficient data storage and Apollo Client for cache management.
* Utilized Nx for monorepo management and NGXS for state management to efficiently handle application architecture and data flow.
* Implemented CI/CD pipelines using GitHub Actions, Jenkins, and OpenShift for automated build and deployment workflows.
* Integrated Azure Service Bus, Application Insights, and Open Telemetry for asynchronous operations, real-time monitoring, and proactive error troubleshooting.
* Integrated alberta.ca Identity Provider & secure Auth workflow using Keycloak as broker; delivered audit‑ready transaction trails.
* Applied semantic versioning for consistent version control and feature flags to manage feature rollouts at both UI and API levels.
* Developed shared services for notifications (email/SMS) using Alberta Notify API, Bull queues, and Redis, enhancing system-wide communication.
* Conducted automated testing with Jest and Cypress to ensure high code quality and application reliability, while actively participating in UX workshops to align design with user needs.

## CGI (Jan 2016 – May 2022)

**Roles:** Senior Full Stack Developer  
**Projects:** AISH & IES Intake, Application Maintenance & Support, Wildfire Payment Analytics, Business Intelligence Environment Upgrade

* Maintained and enhanced full‑stack web applications (SPAs) using TypeScript, JavaScript, Nodejs, Angular CLI, custom directives/pipes.
* Built and supported backend services with Node.js/Express and TypeScript, including migrating legacy MS Access backends to SQL Server 2016 for improved performance and security.
* Developed and managed CI/CD pipelines (Jenkins, Docker, GitHub/TFS) to automate builds, deployments, and version control across web and BI applications.
* Implemented comprehensive automated testing: unit tests (Jasmine), regression and end‑to‑end suites (Cypress), and System Integration Testing to ensure code quality and reliability.
* Designed and executed ETL and data‑cleanup workflows using SSIS packages, Data Quality Services, VBA scripts, and Excel—to merge, validate, and transform large datasets.
* Architected business‑intelligence platform: ETL using SSIS, created SSAS cubes, SSRS and PerformancePoint reports, Power View dashboards, and dimensionally‑modeled data marts for self‑service analytics.
* Conducted analytics and fraud‑detection pipelines by merging third‑party payment data, validating attributes against identity sources, and providing interactive SSRS verification tools for business users.
* Led cross‑functional collaboration: mentored developers on ETL/BI best practices, authored operational manuals, facilitated JAD/UAT sessions, and translated business requirements into technical solutions.

## Early Career (Nov 2007 – Dec 2015)

**Roles:** Analyst / Software Developer

* **Projects:**
* **Government of Alberta (2013 – 2015):**
  + Employee Leave Management System - AngularJS/Node.js, XML/JSON ingestion
  + ReCAPP Capital Planning Replacement - VBA/Excel ETL, SSIS, Cognos → SSRS migrations, Visio process flows,
  + Online Parking Portal - VBA data cleanup, SQL Server tuning, SSRS reporting, dynamic Excel trackers
* **University of Alberta:** Population Research Lab—phone surveys, social‑science data analysis, reporting (2013).
* **Alberta Blue Cross:** MS Access legacy overhauls with VBA, Oracle Forms/Reports, stakeholder JAD sessions, UAT coordination (2011–2012).
* **Infosys:** Centrasite UI using Java SWT & JAXR registry, SSIS/SSRS reporting, SSAS cubes, data migrations, and test automation (2007–2010).

# Education

* Master of Engineering (MEng), Engineering Management, University of Alberta, Canada.
* Bachelor of Technology, Electrical, DCRUST, India.

# Certifications

* Microsoft Certified Professional (Power BI, SQL Server)
* ITIL V3 Foundation
* Certified Associate in Project Management (CAPM)
* Sun Certified Java Programmer (SCJP)

# Awards & Recognition

* Recognized for exceptional team collaboration and delivery excellence.
* Awarded for outstanding contribution to project development.
* Recognized for mentorship and team collaboration.