

# Priyank Narvekar

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## Contact

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## Education

### Memorial University of Newfoundland, Canada

- 2018 to 2024 Master of Science (MSc.) – Computer Science – [Bio-inspired Robotics](#)
- 2016 to 2018 Master of Business Administration (MBA) - General
- 2008 to 2013 Bachelor of Engineering (B.Eng.) – Computer Engineering

## Work Experience

### IBM Canada – Senior Software Engineer

Sep 2019 – Till Date

- **Accelerated client adoption** by leading the onboarding of 45 ISVs to IBM Financial Services Cloud, delivering technical solutions, compliance validation, and deployment guidance. Enabled 8 ISVs to reach production for BNP Paribas, contributing to \$3.1M ARR in 2024.
- **Acted as a technical liaison** for Platinum ISVs and FinTech startups, providing hands-on guidance in code optimization, integration, and scalable deployment strategies across hybrid cloud environments.
- **Led technical enablement** for BNP Paribas' SaaS Platforming Team, advising on distributed system design patterns including logging, failover, and redundancy to ensure resilient cloud-native architectures.
- **Collaborated cross-functionally** with offering teams, customers, and technical stakeholders to troubleshoot complex workload issues, deliver strategic enhancements, and mitigate risks in multi-node environments.
- **Identified and resolved performance bottlenecks** in IBM Cloud Object Storage (COS) for Project [Vela](#), delivering production fixes across multi-zone regions and contributing to global platform stability.
- **Developed and productized a patented deployment methodology** ([US Patent: 11755717](#)) to accelerate ISV adoption in regulated environments. The solution was integrated into IBM Cloud as Deployable Architectures and recognized with an OTAA.
- **Architected validated reference architectures** for Financial Services Cloud using Virtual Servers and Red Hat OpenShift, enabling secure and compliant onboarding for banks and ISVs.
- **Designed alternative solutions** for scenarios lacking native managed services, ensuring customer success through innovative system virtualization and hybrid cloud strategies.
- **Championed customer feature requests**, influencing internal development roadmaps and contributing to IBM Cloud for Financial Services evolution based on real-world client needs.
- **Built developer tools and integrations**, including a Splunk Technology Add-on for IBM Cloud and internal productivity tools, enhancing observability and operational efficiency.
- **Provided technical mentorship** to peers, fostering expertise in cloud computing, distributed systems, and solution architecture through hands-on guidance and knowledge sharing.

### IBM Canada – Advisory Software Engineer

Jun 2017 – Aug 2019

- **Led the development team for the logging service** in the prototype of IBM Cloud Fabric's second-generation platform. (*Received OTAA recognition*)
- **Collaborated with Intel to prototype trusted computing and container solutions** on IBM Cloud by integrating Intel Cloud Integrity Technology into the IBM Cloud Kubernetes Service for *Think 2018*.
- **Contributed to the development of infrastructure automation playbooks** for a Daimler A.G. project, enhancing deployment efficiency and reliability.
- **Extended the IBM Cloud Terraform Provider** to support VPC resources during its pilot release, improving automation capabilities for cloud-native infrastructure.
- **Advised on the conceptual architecture** for the Small & Medium Business Advisor product by 9 Spokes International (New Zealand), helping shape a scalable and practical design.

### IBM Canada – Staff Software Engineer

Sep 2015 – May 2017

- **Prototyped and led the architecture and development of a Watson-integrated commenting service**, enabling contextual commenting across web applications (text, images, charts, and graphs). The solution was later adopted and productized by the IBM Connections team.
- **Managed customer challenges** by diagnosing issues effectively and delivering timely, impactful resolutions.
- **Assisted Cisco in migrating and setting up the Cisco Kinetic IoT platform** on IBM Cloud for the Port of Rotterdam, ensuring a smooth and scalable deployment.
- **Developed an integration service between Cisco Spark and Watson Workspace**, enabling seamless collaboration and intelligent interaction across platforms.
- **Prototyped a Cisco Spark bot** to integrate with IBM Cloud Connections and IBM Watson services, showcasing innovative use cases for enterprise collaboration tools.

- **Guided clients in leveraging existing IBM technologies**, ensuring optimal alignment with their use cases and accelerating time-to-value.
- **Contributed to the development of a Cloud Analytics Dashboarding framework prototype**, enabling advanced insights and visualization capabilities.
- **Mentored junior developers and interns**, fostering their growth in technical skills, communication, and professional development. Supported successful transitions, including helping a non-technical team member move into a technical role, strengthening overall team capability.

#### IBM Canada - Software Engineer

May 2013 – Aug 2015

- **Developed a Java-based ETL application** for the rate-limited Parature API, synchronizing over 2 million Cloud Support records for analysis and internal reporting.
- **Ideated and led the development of an integration service** enabling collaborative analytics between IBM Cognos and IBM Connections, dynamically pushing charts and data to Connections pages.
- **Created an iPad application for IBM Executives**, leveraging Cognos APIs to deliver real-time access to internal metrics and performance dashboards.
- **Migrated legacy ETL applications to IBM DataStage**, transitioning from dedicated bare-metal jobs to a more scalable and maintainable platform.
- **Designed data models, built Cognos reports and Power Cubes**, and managed data warehousing and backup processes to support business intelligence initiatives.

#### IBM Canada - Software Engineer Intern

Sep 2010 – Apr 2013

- **Developed data models, Cognos reports, and Power Cubes**, while managing data warehousing and backup operations to support enterprise reporting needs.
- **Built Java-based ETL applications** that synchronized approximately 10 million PMR records daily from multiple data sources, ensuring data consistency and timeliness.
- **Ideated and led the development of a Cognos extension** to simplify report scheduling, significantly improving user experience and efficiency.
- **Managed development infrastructure**, including DB2, WebSphere, Cognos, and AIX servers, ensuring high availability and performance of analytics platforms.
- **Implemented new features and resolved defects** for IBM-wide Software Metrics Dashboard, contributing to enhanced usability and data accuracy.
- **Designed and developed ETL processes** for Multilingual Consumability Experience Surveys, enabling broader data collection and reporting.
- **Created the Multilingual Consumability Survey Builder**, supporting globalized user input and analytics across multiple languages.

#### IBM Canada - Application Developer Intern/COOP

Jan 2010 – Apr 2010

- **Migrated Business Process Management (BPM) samples and tutorials** from archived static web pages to a modern Web 2.0 platform, improving usability and maintainability.
  - Proposed and developed three solution alternatives: dynamic pages with MySQL/DB2 backend, XML-driven architecture, and a dynamic system generating enhanced static pages.
  - Upgraded the user interface to align with IBM InfoCenter standards—removing frames and leveraging AJAX for dynamic content updates.
  - Utilized pattern recognition in legacy static pages to extract, transform, and load content into a structured database.
  - Integrated **Apache Lucene** to enable full-text search across tutorials and samples, enhancing discoverability.
- **Implemented new features and resolved defects** for the IBM Compass 7002 release, contributing to product stability and improved functionality.
- **Prototyped an Android application** to interface with the BPM server via mobile and SMS, enabling basic remote process interaction and monitoring.

#### AIF Small Craft Simulation Group – COOP

Apr 2009 – Aug 2009

- **Collaborated with senior engineers to design and develop automated test projects** for simulation systems using C++, improving test coverage and reliability.
- **Customized the Vtiger CRM package** to support internal invoice management needs, enhancing process efficiency and alignment with business requirements.
- **Managed administrative operations**, including creating purchase orders, filing, and bookkeeping, ensuring accurate and organized recordkeeping.
- **Authored technical documentation, troubleshooting guides, and presentations**, supporting knowledge transfer, onboarding, and cross-team communication.

#### Publication and Patents

- Narvekar, P., Vardy, A. A data grid strategy for non-prehensile object transport by a multi-robot system. Artificial Life and Robotics (2023). <https://doi.org/10.1007/s10015-023-00908-5>
- Security Compliance for a Secure Landing Zone. 12 Sept. 2023. (US-11755717-B2)

## Projects

**In-Kernel Metrics Server** – *Advanced Operating Systems (Term Project)* - Developed a TCP server running in kernel space to serve system metrics from procs in JSON format over HTTP.

**SmartICE Assembly Manual** – *MBA Consulting Course (Term 4)* - Collaborated with a consulting team to develop an assembly manual for the **SmartICE** device, designed for youth assembly at Choices for Youth. [smartice.org](http://smartice.org)

**Diesel Plant Simulator** – *Undergraduate Final Year Project*- Partnered with **Nalcor Energy Inc.** to design a simulator for diesel power plant operations.

**iPhone RSS Reader** – *Mobile Applications Course (Term 8)* - Designed and implemented an iOS app for reading and bookmarking RSS news feeds.

**Smart Surveillance Camera** – *Machine Vision Course (Term 7)* - Built a network-based surveillance camera system powered by **OpenCV** and backed by **MySQL**, enabling indexed, searchable video data and backend analytics.

**FIFO Device in VHDL** – *LSI Course (Term 7)* - Designed and implemented a First-In-First-Out (FIFO) device using VHDL.

**Java Distributed File System** – *Software Design Project (Term 5)* - Designed and partially implemented a distributed file system in Java, focusing on scalability and fault tolerance.

**Java Network File System (NFSv2)** – *Software Design Project (Term 5)* - Implemented the **Network File System v2 (NFSv2)** protocol in Java to support remote file operations.

**Portmapper (ONC RPC)** – *Software Design Project (Term 5)* - Implemented an ONC RPC Portmapper v2 service as per RFC 1833.

**32-bit Multiplier in VHDL** – *Digital Design Project (Term 5)* - Designed a 32-bit multiplier using **Booth's Algorithm** in VHDL for optimized signed integer multiplication.

**MUNder Robot** – *Robotics Competition (Term 2)* - Built a competitive robot for a semester robotics challenge focused on collecting aluminum cans.

**Gigaloads.com (Retired)** – *Personal Project (10th Grade)* - Created a LAMP-based software search engine and download portal, monetized via AdSense.

## Key Achievements

- ✓ Multiple RSU Retainment Awards (2021–2025) for exceptional technical and leadership impact.
- ✓ 2×Outstanding Technical Achievement Award (OTAA) recipient – IBM Cloud Fabric 2.0 and Secure Landing Zone.
- ✓ 1st Place, JDI Case Competition, Memorial University (2017).
- ✓ Represented Memorial University at John Molson MBA Case Competition and HEC Montréal Corporate Responsibility Challenge.
- ✓ Multiple IBM - Manager's Choice Award for Putting the client first (2018, 2017, 2016, 2014)
- ✓ IBM - Spirit Award – Show Personal Interest – Dec 2014
- ✓ 11th Canada Wide (Team of 3) in IEEE Extreme Programming competition - 2011.
- ✓ The International Student Undergraduate Academic Award and Scholarship – Memorial University of Newfoundland - 2010
- ✓ Dean's List, Faculty of Engineering - Memorial University of Newfoundland - 2009
- ✓ Memorial University of Newfoundland Entrance Award and Scholarship - 2008.
- ✓ Certificate of Merit in Academics and Overall Performance - High School Graduation - Cambridge High School - 2005
- ✓ Certificate of Merit with Credit in Computer Studies - (University of New South Wales, Australia)
- ✓ Represented School in Indian Model United Nations (INMUN) - 2004
- ✓ Certificate of Merit with Distinction in Computer Studies - (University of New South Wales, Australia)
- ✓ Certificate of Merit in Academics and Overall Performance – Primary School Graduation - Oxford School - 1998