

Karthik Marimuthu

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PROFILE

Technology Strategy Leader with 11 years of progressive experience driving enterprise AI transformation, technology strategy, and developer productivity. Proven track record in formulating and executing technology strategies that optimize operating models, improve delivery effectiveness, and align with executive business priorities. Skilled in AI integration, large-scale automation, and cross-functional collaboration with C-suite and senior leadership. Adept at translating emerging technology trends (AI, Cloud, DevOps) into actionable roadmaps.

CORE COMPETENCIES

- Technology Strategy & Execution: AI transformation programs, strategic operating models, innovation frameworks
- AI & Developer Productivity: Generative AI, MCP, AI productivity agents, LLM-assisted development
- Enterprise Automation: ReadyAPI to Postman transformation, DevOps optimization, process modernization
- Executive Stakeholder Engagement: ELT/BOD presentations, strategic alignment, vendor & partner management
- Emerging Technology Advisory: AI adoption strategy, RAG solutions, cloud transformation support

PROFESSIONAL EXPERIENCE

Royal Bank of Canada (RBC) - Developer Productivity & AI Strategy Lead

Toronto, ON | Jan 2025 - Present

- Lead technology strategy for AI-driven developer productivity, aligning tools and processes with RBC's enterprise modernization roadmap.
- Designed and implemented AI-enabled operating model for development teams, increasing automation efficiency by 40%.
- Partner with senior leadership (CTO, Directors) to integrate multi-agent AI systems into productivity initiatives and product delivery.
- Guide vendor selection, manage key AI partnerships, and align AI productivity roadmap with RBC business strategy.

Royal Bank of Canada (RBC) - Senior SDET / AI Strategy Lead

Toronto, ON | May 2022 - Dec 2024

- Led multi-year AI transformation program in Global Digital Engine program, modernizing test automation and QA strategy to align with enterprise goals.
- Developed and executed ReadyAPI to Postman migration strategy, covering 95%+ automation scope and aligning with enterprise DevOps modernization.
- Implemented AI-enabled Accessibility Testing framework aligned to compliance goals (WCAG 2.1), reducing manual testing time by 70%.
- Partnered with product owners and senior stakeholders to prioritize AI initiatives and deliver strategic metrics to ELT.

BMO - Senior QA Automation Developer / DevOps Engineer

Toronto, ON | Sep 2019 - Apr 2022

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- Directed technology strategy for Indigo & Rewards Program automation, achieving 95% coverage via Cypress & RestAssured frameworks.
- Integrated AI anomaly detection for transaction monitoring; aligned findings with business risk mitigation strategy.
- Built Terraform-based cloud operating model for test environments, reducing environment provisioning time by 40%.

BMO - Automation Solution Architect, Test Center of Excellence

Toronto, ON | Feb 2018 - Sep 2019

- Architected enterprise-wide standardized automation frameworks (Cypress, Protractor, Robot Framework) for scalability across BMO portfolios.
- Developed AI-driven PoCs for document classification and defect prediction, used to inform enterprise testing roadmap.

BMO - Automation Consultant, Wealth Management

Chennai, India | Aug 2016 - Feb 2018

- Implemented Java Selenium & Karate API automation with CI/CD strategy supporting wealth product releases.
- Collaborated with data science team on fraud detection algorithms for early detection, aligning with enterprise compliance strategy.

Allianz - Automation Engineer

Chennai, India | Nov 2014 - Aug 2016

- Introduced BDD methodology & automated regression frameworks, achieving faster release cycles and improved delivery metrics.

AI & STRATEGIC INITIATIVES

- Technology Strategy for AI adoption: Designed multi-agent AI systems (MCP + LLM) to align with enterprise DevOps strategy.
- Executive-ready dashboards & reporting: Delivered ELT-level metrics for AI-driven productivity programs.
- Vendor & partnership engagement: Guided AI tool selection and strategic implementation aligned to business needs.

EDUCATION

Bachelor of Engineering in Electronics & Communications Engineering

Dr. Mahalingam College of Engineering and Technology (WES Verified), India

AWARDS & RECOGNITION

- Spot Award - RBC (2023) for AI transformation strategy execution
- Star Award - Virtusa (2016) for leadership & innovation