


# Vadim Kononov, M.Sc., B.Sc.

Solutions Architect / Consultant / Developer / Entrepreneur


Accomplished Technical Director, Solution Architect, and Full Stack Developer with deep expertise in web development, cloud security, and DevSecOps. Strong background in Ruby on Rails, React, AWS, and security automation. Passionate about building secure, scalable systems and integrating cybersecurity best practices across the development lifecycle. Interested in App & Web Development, Cloud Computing, Cybersecurity, Open Source Software, Data Science, and Discrete Mathematics.


Over **15 years** of experience in IT in Agriculture, Healthcare, Education, Government sectors, and more.



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## Core Skills

- Adaptability
- Business Analysis
- Communication
- Creativity
- Cybersecurity Awareness
- Leadership
- Management
- Mentorship
- Problem-solving
- Teamwork
- Time Management
- Strategic Leadership
- Technical Direction
- Enterprise Architecture
- Security & Compliance
- Change Management
- Cloud & DevOps Expertise
- Problem-Solving & Innovation
- Stakeholder Communication
- Process Optimization

## Education

**Master of Computer Science** 2015  
University of Manitoba, Winnipeg, MB

### Publications

- PyramidViz: Visual Analytics and Big Data Visualization for Frequent Patterns

**Bachelor of Computer Science** 2010  
University of Manitoba, Winnipeg, MB

- **Major:** Computer Science (Co-op)
- **Minor:** Mathematics & German Studies

## Training & Courses

- Architecting with AWS Oct 2022
- Flutter Bootcamp Mar - Apr 2021
- Google Big Query Training Nov 2019
- OBS Security Training Jun 2018
- Product Owner Training Apr 2019
- Agile Training Nov 2018
- OWASP Secure Dev Training Jun 2018
- React Native Boot Camp Mar 2018
- Linton Sellen's Leadership Training Nov 2017
- IBM Initiate Master Data Service Technical Boot Camp Mar 2012

## Latest Training Initiatives

- REST API Best Practices - How to Write APIs Dec 2024
- Git Version Control & Best Practices Nov 2024
- Principles of Secure Development & Deployment Jun 2024
- Time: A Developer's Nightmare and Beyond May 2024
- Designing Clean and Responsive Emails with Zurb Inky Feb 2024

## Technical Skills

### Development Frameworks & Libraries

- React, React Native, Ruby on Rails Expert ★★★★★
- Capacitor, Flutter, NextJS, MeteorJS Intermediate ★★★
- Bulma, Bootstrap, Material UI, Zurb Foundation Proficient ★★★★

### Cloud & DevOps Technologies

- AWS, Google Cloud, Digital Ocean Proficient ★★★★
- Microsoft Azure, Heroku Intermediate ★★★
- CI/CD (GitLab, GitHub, Jenkins) Proficient ★★★★
- Server Management & Security Expert ★★★★★
- Bash/Shell Scripting, Ansible Expert ★★★★★
- Apache/Nginx, Phusion Passenger Proficient ★★★★

### Programming Languages

- JavaScript, Ruby, Java Expert ★★★★★
- C++, PHP, Python, Dart Proficient ★★★★

### Databases & Data Handling

- MySQL, PostgreSQL Expert ★★★★★
- MongoDB, Firestore, Redis Proficient ★★★★
- ETL & Data Integration Proficient ★★★★

### Testing & Quality Assurance

- Minitest, Selenium Proficient ★★★
- QA Automation Strategies Proficient ★★★
- Postman, Swagger Proficient ★★★

### Payment Gateways, CMSs & APIs

- Stripe, Finix, PayPal, QuickBooks Proficient ★★★
- Postmark, Twilio, SendGrid, SparkPost Proficient ★★★
- WordPress, Strapi, CraftCMS Intermediate ★★★

### Additional Skills

- REST APIs, Offline-First App Development Proficient ★★★
- Docker, Kubernetes, Terraform Intermediate ★★★
- OAuth & OpenID, Firebase Analytics Proficient ★★★
- Jira, Trello, Asana Proficient ★★★
- HL7, FHIR, ITIL, Service-Oriented Architecture Intermediate ★★★



## Work Experience



### Director of Technology and Information Security

Tactica Communications Inc., Winnipeg, MB  
2017 - Present

- Led the architecture, development, and deployment of **web and mobile applications** using **Ruby on Rails, React, and AWS**, ensuring scalable and secure solutions.
- Implemented **CI/CD pipelines** that significantly reduced deployment time and minimized human errors in production.
- Developed **internal security tools**, including a **Ruby gem for vulnerability auditing**, which improved security assessments and automated patching workflows.
- Integrated **automated testing and static analysis** into the software development lifecycle, reducing bugs and increasing code quality.
- Designed and enforced **secure coding practices** company-wide, leading to a **significant drop in security vulnerabilities** detected by external penetration tests.
- Spearheaded a **company-wide cybersecurity training program**, achieving a **94% completion rate** among employees and improving awareness of **threat modeling and secure development**.



### Backend Developer

SkipTheDishes, Winnipeg, MB  
2016 - 2017

- Compiled and analyze data, processes, and codes to troubleshoot problems and identify areas for improvement.
- Collaborated with the front-end developers and other team members to establish objectives and designed more functional, cohesive codes to enhance the user experience.
- Developed ideas for new programs, products, or features by monitoring industry developments and trends.
- Participated in continuing education and training to remain current on best practices, learned new programming languages, and better assisted other team members.



### Web Application Developer

University of Waterloo, Waterloo, ON  
2013 - 2016

- Developed **automated testing tools** to validate **LMS system integrity**, reducing QA time by **90%**.
- Created an internal **URL monitoring system**, improving content integrity across 1000+ pages.
- Built a data validation tool, reducing course content errors by 95%.
- Led the initiative to **convert the entire website (over 2,500) pages** to a content management system.
- Completely overhauled and refactored the existing poorly designed and inconsistent database.
- **Developed several innovative tools** used for campus-wide events to attract potential students.
- Under my mentorship, a co-op student **developed a campus tour booking system** for internal use.



### Technical Consultant

eHealth Ontario, Toronto, ON  
2013 - 2013

- Developed requirements and produced examples for close to **50 Business Intelligence reports**.
- Researched the logistics of a real-time **data replication solution** for a database with over **1B records**.
- Implemented several shell scripts and produced **numerous highly complex SQL-based data extracts**.



### Application Security Consultant

Shared Health, Winnipeg, MB  
2009 - 2012

- Designed and implemented **security protocols** for handling sensitive healthcare data.
- Developed a **Java API for secure data integration** across multiple hospitals.
- Created **Business Intelligence reports** to monitor security anomalies in **patient data systems**.