



Igor Komolov

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Professional Summary

Tech-transformation trailblazer with over 20 years of experience leading innovation. Expertise in user-centric software development, data engineering, software architecture, project management, and pioneering emerging technologies such as mixed reality, blockchain, AI, quantum computing, XR, web/mobile apps, and embedded systems. Proficient in stacks including React, React Native, Firebase, JavaScript / Typescript, three.js, WebGPU, Cloudflare Workers, and C family. Passionate about delivering cutting-edge solutions that drive business growth, operational efficiency, and customer success, with proven results in scaling products, reducing costs, and architecting real-time enterprise systems.

Professional Experience

Consulting Software Engineer

Agile Humanities Agency | Remote | Sep 2022 - Present

Collaborating with leading universities to deliver innovative frontend solutions and support academic research.

- Developed responsive interfaces for web and mobile using Typescript, HTML, SASS/CSS, Three.js, and modern Ruby / React frameworks.
- Upgraded legacy systems, built Docker containers for scalable workflows, and implemented reusable code libraries.
- Practiced Agile methodologies, managed code deployment (Git, GitHub, Beanstalk), and ensured timely delivery using Asana.
- Lead team to convert Omeka Classic to Omeka S. Resulting in a comprehensive migration tool and in-and-out knowledge of the Dublin Core.

Chief Technology Officer

RightDrive Inc. | Pickering, Canada | Nov 2022 - Sep 2024

As CTO, I led technology strategy for a leading JDM import and customization business, modernizing legacy systems and driving innovation. My expertise in data engineering, software architecture, and project management enabled:

- Automation of business processes and backend integrations, improving operational efficiency and reducing costs.
- Implementation of scalable inventory management and e-commerce tools, enhancing customer satisfaction and huge business growth.
- Leadership of cross-functional teams to deliver high-impact solutions aligned with business goals.

Chief Research Officer

Canadian Intelligence Agency Inc. | Remote | Apr 2022 - Present

Pioneered integration of mixed reality, blockchain, AI, and quantum computing, leading R&D projects that blend digital and physical worlds.

- Advanced research in blockchain for security and transparency, and quantum computing for complex problem-solving.
- Led teams in developing transformative solutions, fostering a culture of innovation and collaboration.

Co-Founder & Solution Architect

Forex Lens Inc. | Toronto, Canada | Jun 2015 - Present

Instrumental in leading the development of innovative fintech solutions for forex, crypto, and commodities trading. As Solution Architect, I designed and implemented complex systems, optimized business processes, and drove business strategy.

- Launched and scaled multiple products, including AI-powered market analysis tools and real-time trading platforms.
- Lead team to convert to Web3 platform via Solana with subscription and token based gatekeeping.
- Lead a team to build out a React client portal, React Native app, and ERP.
- Established key partnerships and delivered measurable value to clients and investors.

Strategy & Technology Consultant

Nitrous Communications | Toronto, Canada | Dec 2016 - Aug 2024

Specialized in devising digital marketing strategies and implementing innovative technologies to drive business growth.

- Led development and execution of customized marketing solutions aligned with client objectives.
- Leveraged analytics and emerging tech to optimize campaigns and deliver measurable results.
- Helped clients stay ahead in a rapidly evolving digital landscape.



Founder, Lead Designer & Developer

Your Fuse Inc. | Toronto, Canada | Apr 2016 - Apr 2022

As the Founder of Your Fuse Inc., I propelled the company to the forefront of user-centric software development, specializing in advanced React software, spatial computing, and state-of-the-art AI. I led a multidisciplinary team to deliver solutions that balance functionality, efficiency, and visual appeal, ensuring products exceed user requirements. My role extended to shaping company strategy, driving R&D, and cultivating industry partnerships.

- Architected enterprise ERP systems with real-time capabilities using React and Firebase, enhancing data processing and user interaction.
- Developed innovative products such as a custom URL shortener (React, Cloudflare Workers), featuring QR code generation, analytics, and AI-powered insights.
- Pioneered spatial computing and procedural visualizations (three.js, WebGPU), and integrated blockchain for secure, efficient transactions.
- Led digital transformation for clients like Burger King and BrainGrid, delivering operational efficiency and cost reduction through data engineering and software architecture.
- Championed and implemented conversion from Vanilla Javascript to Typescript.
- Developed "Graphene," a tailored GraphQL engine that operates on the client side, utilizing in-memory graph traversals powered by Depth-First Search (DFS), Breadth-First Search (BFS), and Dijkstra's algorithm.

Chief Technology Officer

Krystal Nation Inc. | Toronto, Canada | Oct 2016 - Apr 2020

As CTO for the Krystal Nation show on Sirius XM, I developed and implemented cutting-edge technologies and marketing strategies, driving significant business growth.

- Oversaw design and development of digital and marketing collateral, engaging target audiences and maximizing ROI.
- Managed technical operations, including production, web development, SEO, and digital campaigns.
- Fostered a culture of innovation and excellence, mentoring a large team and building strong client relationships.

Senior Web Developer & Digital Business Consultant

Microsawft | Mississauga, Canada | Aug 2012 - Aug 2015

Applied deep understanding of digital technologies and business strategy to help clients achieve growth and competitiveness.



- Led DevOps initiatives, managed CI/CD workflows, and implemented cloud infrastructure.
- Scaling out multiple REST apis for various clients and industries.
- Developed scalable PHP, JavaScript, and Python applications, and optimized SQL databases.
- Delivered full-stack solutions, engaging user interfaces, and robust backend systems.

Lead Designer & Developer

5X5 Comprehensive Interactive Multimedia | Toronto, Canada | Jan 2011 - Dec 2012

Led R&D in Augmented and Virtual Reality using Actionscript, Away3D, HTML5, and GSAP.

- UX/UI Designer: Crafted engaging, intuitive user experiences and interfaces.
- UI Engineer: Developed high-quality interfaces integrating with existing systems.
- Motion Designer: Created compelling motion graphics and animations for digital media.
- Flash Developer: Built custom applications and interactive content with Adobe Flash and ActionScript.
- Video Editor: Produced high-quality video content for diverse clients and industries.

Information Technology Operations Manager

OneTouch Direct | St. Catharines, Canada | Jan 2008 - Jan 2011

Managed multiple Fortune 500 and political campaigns, exceeding sales targets and optimizing operations.

- Conducted in-depth data analysis and reporting to inform business decisions.
- Developed outbound call center strategies, leveraging Microsoft Visual FoxPro, SQL, and telephony systems.
- Provided comprehensive training and created compelling campaigns to drive engagement and results.

Freelance Animator, Designer & Developer

Freelance | Toronto, Canada | Jan 1999 - Dec 2007

Delivered creative solutions across animation, design, and development for broadcast, web, and mobile.

- Proficient in Autodesk Suite, Adobe Suite, Blender, GIMP, and more.
- Developed responsive web and mobile applications, custom plugins, and extensions for CMS platforms.
- Extensive experience with front-end (HTML, CSS, JavaScript) and back-end (LAMP,



- MERN, Node.js, Django) development.
- Strong database management (MySQL, MongoDB), scripting (Bash, Python), and version control (Git, SVN).
- Combined technical expertise with artistic background to exceed client expectations and deliver on-time, on-budget projects.

Education

❖ University of Toronto

Financial Trading & Option Strategies | 2018 - 2019 | Toronto, Canada

❖ Sheridan College

Bachelor of Applied Arts (BAA) in Animation | 2002 - 2007 | Oakville, Canada

❖ Sheridan College

Art Fundamentals | 2001 - 2002 | Oakville, Canada

Skills

- Technology Transformation Leadership
- User Experience Design
- Data Engineering
- Software Architecture
- Project Management
- Cutting-Edge Solutions Deployment (AI, Machine Learning, Blockchain, Quantum Computing, Mixed Reality, XR)
- Web & Mobile App Development (React, React Native, JavaScript, three.js, WebGPU)
- Cloud Technologies (Cloudflare Workers, Firebase)
- FinTech & Trading Platforms (Forex, Crypto, Commodities Analysis)
- Web3 and Smart Contracts (Bitcoin, Ethereum & Solana)
- Database and Systems (GRAPH QL, REST, SQL, NoSQL)
- Backend Integration & Automation
- 3D Rendering & Procedural Graphics
- Embedded Systems & CLI tools
- Rust, C, C#, C++ & System-Level Tools (e.g., File Monitoring)
- Enterprise ERP Systems (Real-Time Capabilities)

