



**Igor Komolov**

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## Professional Summary

Visionary technology leader with 15+ years of experience spearheading innovation, software development, and team leadership across fintech, automotive, and digital marketing sectors. Expert in agile project management, AI integration, Web3 and building scalable, high-performing engineering teams. Proven track record of driving product strategy, enhancing operational efficiency, and delivering cutting-edge solutions - resulting in up to 40% faster time-to-market and 25% improved system reliability. Passionate about leveraging emerging technologies like blockchain, AI, and XR to solve complex business challenges.

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## Professional Experience

### Consulting Software Engineer

*Agile Humanities Agency* | Sep 2022 - Present

- Developed and deployed innovative front-end solutions for global universities, supporting academic research.
- Created responsive web and mobile UIs using PHP, JavaScript, HTML, and SASS/CSS, and modernized legacy systems with React.
- Implemented Docker containers, managed code with Git, and ensured timely delivery using Agile methodologies and Asana.
- Built tools to help convert Omeka Classic to Omeka S systematically, entire Dublin Core re-mapping using Rust & C

### Chief Technology Officer

*RightDrive Inc.* | Nov 2022 - Sept 2024

- Directed technology strategy, delivering AI-powered solutions that increased customer satisfaction by 30% and drove 20% business growth.
- Mentored 15+ engineers, boosting team productivity by 25% through agile workflows and DevOps adoption.
- Led AI integration initiative, launching an ERP/CRM/DRM hybrid using React, Material UI, and Firebase.
- Developed XR user experiences with C, Three.js, enhancing product interactivity by 15%.
- Introduced Rust to the development stack for designing smart contracts on Solana.

## **Software Engineer Contractor**

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

- Pioneered research in AI, blockchain, and quantum computing, delivering 3 transformative prototypes blending digital-physical systems.
- Designed C/C++ embedded systems for AI products, reducing latency by 35%.
- Converted complex equation C code to Rust for futureproofing / portability.
- Shaped technical strategy, aligning innovation with organizational goals.
- Designed and developed multiple eGUI systems for displaying data with Rust

## **Founder & Lead Software Developer**

*Your Fuse Inc. | Apr 2016 - 2024*

- Founded and scaled a user-centric software firm, achieving leadership in UX/UI design with a proprietary ERP/CRM/SSR shell (React, Material UI, Firebase).
- Forged 10+ industry partnerships, expanding market reach by 50%.
- Directed R&D, integrating novel technologies that reduced development costs by 20%.
- Developed multiple web tools and systems to help with building faster using C & Rust.

## **Strategy & Technology Consultant**

*NITROUS Communications | Dec 2016 - 2024*

- Crafted digital marketing strategies using AI and analytics, improving client ROI by 18%.
- Implemented scalable React frameworks, cutting deployment times by 30%.

## **Co-Founder & Technical Lead**

*Forex Lens | Jun 2015 - 2025*

- Architected fintech solutions, including a FinTech Portal (React, Material-UI, Firebase) and Web 2 to Web 3 integrations with Phantom Wallet.
- Launched Nexus AI Trader and Market Narrative tools, increasing user engagement by 22%.
- Integrated XR with Three.js, enhancing financial visualization capabilities.
- Lead the Nexus AI development of a market forecasting tool for currency and crypto pairs on all timeframes, with 80% forecast accuracy.
- Using Rust, designed and developed several WASM applications with Typescript bindings.

## **Chief Technology Officer**

*Krystal Nation Inc. | Oct 2016 - Apr 2020*

- Drove digital transformation, growing revenue 35% through tailored marketing and tech solutions.
- Built scalable React frameworks and WordPress plugins, improving system performance by 40%.



- Leveraged Google Analytics, Search Console, and APIs for data-driven decision-making.

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## Key Achievements

- Pioneered mixed reality and blockchain integration, setting benchmarks adopted by 5+ industry peers for security and UX.
- Reduced product release cycles by 40% through agile transformation and CI/CD pipelines.
- Enhanced trade forecast generator to over 80% efficiency using various pipelines and techniques on live market data.

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## Education

**Bachelor of Applied Arts in Animation, Interactive Technology, Video Games, and Special Effects**

*Sheridan College | 2002 - 2007*

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## Licenses & Certifications

- Art Fundamentals - Sheridan College
- Financial Trading & Option Strategies - University of Toronto School of Continuing Studies
- Object-Oriented Programming in C++ - University of London
- Advanced React - Meta

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## Skills



**Programming Languages:** JavaScript, TypeScript, C, C++, Rust, Lua, PHP, Python 3

**Frameworks & Libraries:** React, React Native, jQuery, Three.js, Material UI, Custom Frameworks

**Backend Technologies:** Node.js, Firebase, GraphQL, WebAPI, SQL Server, REST APIs

**DevOps & Tools:** Git, Webpack, Docker, CI / CD (Jenkins), JIRA / Confluence, Monitoring (NewRelic, ELK)

**Design Tools:** Figma, Sketch, Adobe Creative Suite

**Emerging Tech:** Blockchain (Bitcoin, Solana, Ethereum), AI, Machine Learning, Quantum Computing, XR

**Methodologies:** Agile, Scrum / Kanban, DevOps, UX / UI Design, Accessibility

**Platforms:** AWS, GCP (Firebase), Cloudflare guru, CMS Systems, Debian Linux, Windows 11 WSL, MacOS

### **Tutorials I have written:**

[Igor Komolov – Medium](#)

[CRUST — How to Write a Rust Module That Allows You to Run C or C++ Code | by Igor Komolov | Medium](#)

[Optimize Memory and Performance with the CVM Algorithm in JavaScript: A Comprehensive Guide for Text Analysis, Big Data, and More | by Igor Komolov | Medium](#)

[Exploring Quantum Computing with JavaScript: A Beginner's Guide | by Igor Komolov | Medium](#)

[Unveiling Rust: A JavaScript Developer's Guide to Mastering a New Realm | by Igor Komolov | Medium](#)

[JavaScript — What's new with ECMAScript® 2024 \(ES15\) — In Depth Guide | by Igor Komolov | Medium](#)

