

# Cody Nicoll

Senior Backend Engineer | Product Systems & Integrations

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## PROFESSIONAL SUMMARY

Senior backend and full stack developer with 20+ years of experience designing and shipping large-scale web applications, microservices, and distributed systems. Currently applying that depth to AI-powered production systems — including data extraction pipelines, workflow automation, and LLM integration. Experienced technical leader and mentor with a track record spanning high-traffic consumer products at Electronic Arts through to developer tooling and non-profit sectors.

## CORE SKILL SET

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**Backend Systems & Architecture** API design and system architecture, database schema design and data modeling, GraphQL and REST APIs, background job processing and queued workflows, performance troubleshooting

**AI & Applied Language Models** Production LLM integration, context and prompt engineering, RAG pipelines, structured data extraction, AI agent development, n8n automation workflows

**Integrations & Data Pipelines** External provider integrations, document ingestion and parsing, automated data import systems, event-driven processing

**Sensitive Data & Compliance** Experience working with sensitive data, auditability requirements, and data residency considerations in production systems

**Cloud & DevOps** AWS (EC2, RDS, S3, Cognito, DynamoDB, CloudFront), GCP, Docker, Kubernetes, CI/CD, Nginx, monitoring and deployment pipelines

**Languages & Frameworks** Ruby on Rails, Node.js, Python, PHP, Java (Play Framework), React, Next.js, TypeScript

**Databases** PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Supabase, Memcached

**Engineering Practices** Code review, mentoring, testing, technical design reviews, security reviews, agile collaboration

## EXPERIENCE

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### Senior Software Developer | Ocupop

2019 – Present

- Designed and implemented backend systems that process unstructured documents and produce structured data for reporting and compliance workflows.
- Built production data extraction pipelines used by analysts and stakeholders to evaluate suppliers and opportunities, integrating language models as part of the core workflow rather than as research tooling.
- Led context design and structured data extraction systems using Claude, OpenAI, and other AI model providers.
- Built automation pipelines with n8n connecting AI-powered data extraction into end-to-end production workflows.
- Developed APIs and services using Python, PostgreSQL, and Supabase with React and Next.js frontends.
- Managed AWS and GCP infrastructure including deployments, monitoring, and operational support.
- Designed auditable database schemas and reporting structures for traceable decision-making systems.
- Mentored developers and supported non-profit partners with technical planning and implementation.

**Senior Software Developer | Spark RE Technologies***2018 – 2019*

- Developed CRM platform features using Ruby on Rails.
- Introduced modern frontend tooling including Webpack, ES6, and React into an existing production application.
- Participated in planning, estimation, and full feature lifecycle delivery.
- Mentored developers, conducted code reviews, and implemented deployment pipelines and stress testing on AWS infrastructure.

**Software Engineer II | Electronic Arts***2012 – 2018*

- Tech lead on web teams delivering high-traffic releases across EA.com and EA Sports properties including major franchise launches.
- Designed and implemented authentication systems (OAuth 2.0, SSO, TFA) used during large-scale launches.
- Built backend microservices in Java (Play Framework) and contributed to PHP-to-Java migration initiatives.
- Participated in launch readiness, security reviews, and load testing for high-volume production environments.
- Mentored co-op students and junior engineers.

**Programmer Analyst | GroupHealth Global***2010 – 2012*

- Full lifecycle development of a proprietary billing application using PHP, Symfony2, Zend, and C#.
- Worked directly with operational users to refine requirements and resolve production issues.

**Web Programmer / Database Administrator | Harfield & Associates Marketing***2005 – 2010*

- Developed and maintained web applications and contest platforms for national clients including Honda Canada and the Vancouver Giants.
- Managed relational databases and collaborated with design teams on client deployments.

**Freelance Developer | cNicol Online | Yunikon***2005 – Present*

- Built and maintained custom CMS and e-commerce platforms using PHP, WordPress, and MVC frameworks.
- Built and maintained custom CMS, e-commerce, and WordPress platforms for a range of clients, including multilingual stores with complex pricing and automated product import pipelines.

**EDUCATION & CERTIFICATIONS**

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**Certificate in Applied Software Development**  
**Zend Certified Engineer**

*BCIT, 2010*  
*License: ZEND018104, 2011*