

Mark Simpson

Building scalable, high-performance backend systems

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Summary

Specializing in backend development, database design, and system architecture, with experience delivering production apps featuring authentication, payments, dashboards, and automated workflows. Former professional hockey player bringing discipline, leadership, and a results-driven mindset to engineering challenges.

Education

Bachelor of Computer Science 2016 –

2020

University of New Brunswick, Fredericton, NB

- GPA: 3.7 while being a UNB Reds Hockey Athlete, two-time National Champion and Academic All Canadian and UNB Dean's list.

Technical Skills

- Front-end: Javascript, HTML, CSS, EJS, Alpine.js, Vue.js
- Backend & API: Express, Node, Python(FastAPI)
- Database: SQLite, MySQL, MS SQL Server, Pocketbase
- Tools: Git, Postman, DigitalOcean, Stripe API, Resend Email API, Google Maps API
- Other Programming Languages: Java, C
- Bilingual in English (native language) and French

Professional Experience

Professional Ice Hockey Player

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| • Sheffield Steelers, EIHL (Sheffield, United Kingdom) | 2023 – 2025 |
| • Asiago Hockey 1935 Srl, ICEHL (Asiago, Italy) | 2022 – 2023 |
| • Kalpa Kuopio, Liiga (Kuopio, Finland) | 2022 |
| • Stockton Heat, AHL (Stockton, California) | 2020 – 2022 |

Tech Consultant

2025 –Present

Upfront Sports (Remote, Canada)

- Provided strategic guidance on architecture and design for the next-generation platform
- Advised on technical decisions, integrations, and workflow optimizations.
- Supported the roadmap planning technology evaluation for scalability and maintainability

Database Administrator

2017, 2018

JD Irving Ltd. (Saint John, NB)

- Managed and maintained company databases, executed data retrieval and analysis, implemented robust security measures, and collaborated with the IT team to optimize databases.
- Utilized skills in SQL, database management, data analysis, and database security

Technical Projects

Effortless HQ - Small business invoicing app (effortless-hq.com)

Tech Stack: Node JS, Express, Javascript, EJS, Pocketbase, CSS, HTML, REST API

- Created backend logic for user authentication, job completion, invoice creation, dashboard and automated email notifications.
- Designed database schema and REST API; integrated PocketBase authentication and admin dashboard.
- Implemented automated backend workflows connecting job completion, invoice generation, email notifications, and status updates.

Hockey-ETL - NHL Data API (<https://hockey-stats-api.duckdns.org>)

Tech Stack: ExpressJS, Python, SQLite3, Node.js, Pandas, Resend, DigitalOcean

- Developed a back-end data system featuring a Python ETL pipeline (Pandas) for scraping and cleaning hockey data, loading it into a persistent SQLite3 DB, and exposing it via a structured ExpressJS API.
- Implemented automated job scheduling using cron and integrated Resend to deliver nightly game score reports to subscribers, ensuring data consistency and real-time user value.
- Managed the production deployment of the API and ETL services on DigitalOcean, establishing a high-availability, low-latency environment for data access and distribution.

HomR - Home Listing App (in progress) (<https://homer-mwed.onrender.com>)

Tech Stack: Node.js, Express, JavaScript, EJS, PocketBase, Alpine.js, CSS, HTML

- Built a full-stack real estate platform enabling homeowners to list properties, manage offers, and connect with service partners (lawyers, inspectors, plumbers).
- Created backend logic for listing management, user authentication, offer submission, and partner onboarding workflows.

- Designed database schema and REST API; integrated PocketBase for authentication, file storage, and admin dashboard.
- Automating workflows for offer handling, partner subscription management, and property filtering with responsive frontend interface.