

Mattias Martens

Software developer and project owner

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Qualifications

- **Full-stack development:** 5+ years experience developing application capabilities across the stack. This includes four projects built solo from the ground up.
- **Progressive web apps:** 5+ years experience developing single-page web applications in a variety of JavaScript frameworks.
- **Business analysis:** 4+ years experience working directly with clients to determine product parameters and iterate on design decisions and needs.
- **Theoretical background:** Bachelor's Degree in Computer Science from the University of British Columbia. Highlights: 3D graphics, computer vision for AI, machine learning, algorithm complexity, software engineering.

Experience

Cloud Application Engineer for Ioka Technologies

Mar 2022–Present

- Serving clients and contributing to Ioka's inner technology stable
- Promoting and networking on behalf of Ioka

Principal Consultant for Mattias Martens Consulting

Mar 2018–Mar 2022

- Project **Minimind**, client **Article**: Apr 2018-Sep 2021
 - Product knowledge app for client's customer service team
 - Fast navigation (representatives had to use it while on the phone with customers)
 - Data entry and retrieval for product FAQs, known product issues, and product solutions
- Project **Warehouse Cycle Count**, client **Article**: Jan 2019-Apr 2019
 - Inventory verification app for client's warehouse teams
 - Streamlined regular, randomized verification of warehouse stock, as well as reporting of stock discrepancies to other departments
- Project **Gyro**, client **Article**: Apr-Dec 2019
 - Demand planning app for client's purchasing department
 - Enables tracking of sales and inventory projections

- Generates recommended orders for products based on targeted inventory level
- Users could download generated purchase orders to send to suppliers
- Project **Kaska Cards**, client **Liard First Nation**: Jan-Dec 2021
 - Web, Android, and iPhone Kaska language education app
 - Flashcard-based memorization of words and phrases, accompanied by graphics and audio recordings
 - Quiz feature allows users to continuously guess a range of cards until they get them all right
 - Users can upload their own cards as well as organize cards into decks
- Tools used: MySQL, AWS EC2, Node, Vue.js, Google Apps Script, Google Sheets, TypeScript, Firebase, Ionic

Software Engineer for **WealthBar (now CIDirect)**

May 2018–Feb 2019

- Implemented improvements to WealthBar’s account creation flow
- Worked in tandem with Business Analysis and UX teams to deliver a centralized view of user’s financial statements and documents
- Tools used: PostgreSQL, Ruby on Rails, Angular.js, Vue.js

Software Engineer for **Article**

Oct 2017–March 2018

- Un-stalled a project to improve precision of order ETAs, improving granularity of prediction from province/state level to individual postal codes
- Improved volume and fidelity of website analytics by integrating with Heap Analytics
- Performed user research, clarified uncertain requirements, and implemented a user-friendly solution for internal management of parts
- Tools used: MySQL, Play!, Java, Javascript ES6, Angular.js, Vue.js, Hibernate, Heap, Jira, Git, Github

Full-Stack Developer for **Asurion**

Aug 2016–Sep 2017

- Worked with a team on a single-page application for product warranty registration and claims
- Implemented an interface for zooming and scrolling on app stored images
- Added capability for PDF thumbnails
- Reviewed new code, coordinated changes, and integrated new components and processes as part of a large team
- Tools used: MySQL, Play!, Scala, Specs2, React.js, Typescript, Jasmine, Redux

Personal interests

Public speaker on science and philosophy

I’ve given public talks on a wide range of subjects including philosophy, biology, neuroscience, stochastic programming, artificial intelligence, and the history of rhetoric.

This has taught me to communicate complex concepts to audiences with a wide range of levels of familiarity. In a professional environment, this makes me an asset wherever inter-departmental and inter-disciplinary communication is required.

Technical and creative writer

I have been writing on scientific, philosophical, and artistic topics for many years, most recently at mattiasinspace.substack.com. My interests there parallel the content of my public talks.

My non-fiction book, [How to Do Things with Stories](#), grapples with how stories encapsulate learning and influence

minds. I believe many of its lessons have inter-disciplinary application in communication and business analysis.