

# Hello. I'm Victor Rehorst.

I'm a career software developer with over eight years of management experience, focussing on robust system architecture and design. I create and implement solutions that solve complex real-world problems, while maintaining a customer-oriented viewpoint and building strong relationships with product managers. I excel at unraveling, rebuilding, and describing complex systems, tailoring my explanations for any level of technical knowledge. I have a keen eye for debugging and finding edge cases. I'm a tireless advocate for my team and product, and a strong believer in an open, collaborative, cross-functional work environment.

## Skills

---

- Software analysis, design, and debugging
- Microservice architectures
- Integrating diverse systems
- Handling large data sets
- System debugging and problem solving
- Cross-platform mobile apps
- Continuous Integration and Delivery
- Agile with Lean Kanban
- Resource estimation
- People management
- Technical communication

## Tech Tools

---

- AWS cloud deployments using CDK, EC2, ECS, S3, Lambda, RDS, OpenSearch, and more
- GNU/Linux CLI and Desktop
- REST, HTTP, TCP/IP networks
- MySQL, OpenSearch
- Node.js and Javascript ES6+
- PHP, HTML5, DOM, and CSS
- Python, C/C++
- Mercurial, Git
- Jira, Confluence

## Experience and key accomplishments

---

### SOFTWARE DEVELOPMENT MANAGER, SEARCH AND NOTIFICATIONS QUALIO | Remote | 2021 - Present

Led the technical design and implementation of multiple projects with a team of four developers and one test engineer. Extensive use of AWS technologies such as SNS, SQS, Lambda, OpenSearch, and CDK.

Designed a system for the real-time collection, storage, processing, and searching of thousands of auditable records. Separation between original, immutable record storage and presentation records provided customer confidence and flexibility. Our detailed documentation and strong inter-team communications resulted in immediate buy-in and painless implementation by all product modules, deprecating the previous inflexible batch system.

### SENIOR DEVELOPMENT TEAM LEAD, NAVIGATION VERIZON CONNECT (MERGED FROM TELOGIS) | Toronto, CA | 2015 - 2021

I designed and implemented a flexible driver alert system by comparing planned driving routes with static or real-time incident data, using Node.js, CouchDB, and our suite of geospatial tools.

I completely overhauled and optimized our MySQL based home-grown geospatial data storage engine, practically eliminating production incidents and dramatically improving performance.

I was responsible for the architecture of our microservice based infrastructure, designing new services and maintaining others in a wide variety of programming languages, linking them together with a simple but powerful messaging system.

Guided my team of four developers through projects and organizational changes, and was acting development manager for the entire Toronto development team of ten from May to December 2019.

### SENIOR SOFTWARE DEVELOPER / LEAD DATA BUILD DEVELOPER TELOGIS (MERGED FROM MAPTUIT) | Toronto, CA | 2008 - 2015

I reverse-engineered, documented, streamlined, and rebuilt the company's geospatial data build and update systems. The result was more frequent and higher quality data updates for our customers, and improved internal tools for data analysis.

# Hello. I'm Victor Rehorst.

## Education

---

2003 | B.A.

### COMPUTER SCIENCE

University of Guelph

## Awards

---

Co-inventor, USPTO # 9,857,191,  
10,824,269, 10,845,207, 11,015,945,  
11,035,681, 11,402,222

## Organizations

---

2009-PRESENT

### DURHAM ULTIMATE CLUB

Member, player, and team coach.  
Former convener and coach for  
the club's youth league for kids  
8-14. NCCP Community Sport  
coach for Ultimate.

## Hobbies

---

- Playing and coaching  
Ultimate Frisbee
- GNU/Linux and emulation  
software
- Practicing yoga
- Learning and practicing anti-  
racism
- Video and table-top gaming
- Collecting maps
- Birdwatching
- DIY home automation
- Using AWK for "everything"

## Experience Continued

---

I was a vocal advocate for adopting Node.js, and implemented two important projects during this period. One receives, processes, and stores millions of vehicle location messages daily. The other delivers geospatial data updates to the Navigation client, automatically splitting and streaming large data sets with validation hashes included in-band.

I collaborated with the operations team to streamline and migrate production operations from a bare-iron collocate to Amazon AWS, without customer downtime. System capacity and responsiveness improved, and costs reduced by 40%.

I also supervised and mentored a number of co-op students.

### SOFTWARE DEVELOPER, CORE SERVICES

MAPTUIT | Toronto, CA | 2005 - 2008

I helped implement a tile-based map viewer for the web, writing tools that pre-rendered map tiles for the most frequently viewed areas and scale levels, and implemented a number of map overlay plug-ins using HTML5 Canvas API.

I led the implementation of Navigation Portal, a PHP-based framework and suite of web applications used by back-office customers to track and manage their users and data.

### SYSTEM ADMINISTRATOR / CUSTOMER SERVICE REPRESENTATIVE

MAPTUIT | Toronto, CA | 2003 - 2005

I was the point of contact for over 30 business customers, regularly reading feedback and making recommendations for our products. I wrote and edited customer-facing and internal documentation for our products and tools. I also worked with the operations team to maintain the company's development and production environments.

[www.linkedin.com/in/victor-rehorst/](http://www.linkedin.com/in/victor-rehorst/)

**E** victor@chuma.org

**W** www.chuma.org

**P** 905.668.5789

**L** Whitby, CA