

JOHN DENGIS

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SUMMARY OF QUALIFICATIONS

- Engineering leader with a decade of experience scaling teams and platforms to billions in GTV.
- Deep technical fluency across languages, platforms, distributed systems, and multi-agent systems.
- Founder-mode operator shipping AI-native products end-to-end, architecture through delivery.
- Skilled people manager with deep experience hiring, developing, and promoting engineers at every level.
- Proven cross-functional partner across product, business, and external technical stakeholders.

EDUCATION

- M.Sc in Mathematics** September 2014 – August 2015
University of Toronto *Toronto, ON*
Dissertation: Special Methods for Elliptic Problems with Annular Data
(Average Grade: A+)
- B.Sc in Mathematical Physics (Minor in Pure Mathematics)** September 2009 – June 2014
University of Waterloo *Waterloo, ON*
(Average Grade: 93.5%)

EXPERIENCE

- Underflow** December 2025 – Present
Co-Founder & CTO *San Francisco, CA*
- Founded AI-native company automating email-driven workflows for the insurance industry.
 - Built multi-agent systems with shared context across inbox and application.
 - Earned a California insurance broker license to ground product decisions in domain expertise.
- Instacart** April 2025 – December 2025
Senior Engineering Manager *San Francisco, CA*
- Led 20 mobile and backend engineers in Fulfillment, unlocking \$300M+ in incremental GTV.
 - Owned partner relationships across retailer and third-party tech teams to build strong integrations.
 - Interviewed 100+ engineers and managers and closed multiple senior hires as a recruiting partner.
 - Drove team-wide adoption of AI coding tools, raising developer throughput and codifying best practices.
- Instacart** July 2021 – April 2025
Engineering Manager *San Francisco, CA*
- Led 6 engineers improving Connect API Platform DX, launching 6 new partner integrations.
 - Established sprint, stand-up, and retro cadences that lifted team predictability and engagement.
 - Revamped engineering interview process, standardizing rubrics and improving signal quality.
- Instacart** April 2020 – July 2021
Senior Software Engineer *Toronto, ON*
- Designed and implemented the v2 Fulfillment APIs, scaling order throughput to 20M+ orders.
 - Designed and shipped the modular Connect order status page, reducing bad-order rate by 40%.

Instacart*Software Engineer II*

July 2019 – April 2020

Toronto, ON

- Founding engineer on Connect API; defined initial architecture and scaled to \$3B+ in GTV.

Coral Health Research and Discovery Inc.*Senior Software Developer*

July 2018 – April 2019

Toronto, ON

- Designed and built the Coral Health Records application from the ground up.
- Architected serverless infrastructure end-to-end, integrating with 200+ health systems.

Vena Solutions*Senior Software Developer*

October 2016 – July 2018

Toronto, ON

- Reduced server boot time by 60% via JVM and dependency-loading optimizations.
- Improved Excel Add-in start time by 4x for enterprise users.

IBM*Math Library and Compiler Developer*

October 2015 – October 2016

Toronto, ON

- Designed, built, and tuned a high-performance replacement for the IBM java.lang.Math library.
- Implemented optimizations for new hardware instructions in the IBM XL Compiler.

PUBLICATIONS

Modeling of CO₂ injection into aquifers containing dissolved H₂S*Journal of Natural Gas Science and Engineering*

May 2016

- <https://doi.org/10.1016/j.jngse.2016.05.022>

An optimal dissipative encoder for the toric code*New Journal of Physics*

January 2014

- <https://iopscience.iop.org/article/10.1088/1367-2630/16/1/013023>

SKILLS

Languages: JavaScript / TypeScript, Java / Kotlin, Go, Elixir, Ruby**Platforms:** AWS, GCP, Fly.io, Postgres, Redis, Rails, Spring, React, Node.js**AI / ML:** Anthropic / OpenAI SDKs, LangChain / LangGraph, Langfuse, pgvector