

# Joshua Hamilton

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## Skills

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- **Tools:** Python, Javascript/Typescript, PostgreSQL, Svelte, Docker, Git/Github, PyTorch, Figma, TailwindCSS
- **Concepts:** Full Stack, NLP, ML/AI, Data Analysis/Engineering, Cloud, ETL, CI/CD, Agile, Testing, Databases
- **Learning:** React/Nextjs, Kubernetes, Terraform, Apache Airflow, Apache Spark
- **Human Languages:** English (native), French (advanced), Japanese (beginner)

## Experience

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**Funemployed!** Dec 2024 – Present

- Up-skilling like crazy
- Lead maintainer of [Py-FSRS](#) (200+ stars on Github)
- Currently building [vocabtest.me](#)
- Maintaining various other projects such as [jreadability](#), [CIJ analysis](#) + more!

**Startup Founder**, Comprendo Languages Nov 2023 – Sep 2024

- Attempted to start a language learning startup as a solo founder, but ultimately failed
- Originally set out to build a web app for ai-generated "Graded Readers" but pivoted towards building a language learning browser extension for streaming services like Netflix. See [Comprendo TV](#) (now inactive & very broken!)
- I ultimately learned a lot! And in the process, made the transition from Data Scientist to Software Developer

**Data Scientist**, Refold Languages Oct 2021 – Aug 2023

- Second full-time hire (I wore many hats!)
- Led the development of the [Refold Premium Flashcard Decks](#) which became our main revenue source
- Led R&D and developed language skill assessments such as vocabulary and reading tests for clients
- Automated internal processes with Python, Docker, GCP/Firebase, Google Analytics, and lots of NLP

**Teaching Assistant**, University of Manitoba Sep 2018 – April 2020

- Led tutorial sessions for first-year statistics and computer science courses
- Provided one-on-one tutoring for struggling students at the Statistics Help Centre

**Undergraduate Researcher**, Database and Data Mining Laboratory @ UofM Summers 2018 and 2019

- Published two papers in the IEEE
  - [Analytics of Similar-Sounding Names from the Web with Phonetic Based Clustering](#)
  - [Identifying the Right Person in Social Networks with Double Metaphone Codes](#)

## Certifications

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- **Google Cloud Platform**, [Associate Cloud Engineer](#) Valid March 2025 - 2028
- **AWS**, [Cloud Practitioner](#) Valid April 2025 - 2028
- **Azure**, [Azure Fundamentals](#) No expiration

## Education

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**Computer Science - Statistics (joint program)**, University of Manitoba Sep 2015 – Aug 2020

- Graduated with First class honours and a Minor in Mathematics