Joshua Hamilton

hamiltonjoshuadavid@gmail.com | Github | LinkedIn | joshdavham.com

Skills

- **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

Indie Hacker   Dec 2024 – Present

- Up-skilling like crazy
- Currently building vocabtest.me
- Lead maintainer of Py-FSRS (200+ stars on Github)
- 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

- **Google Cloud Platform**, Associate Cloud Engineer   Valid March 2025 - 2028
- **AWS**, Cloud Practitioner   Valid April 2025 - 2028
- **Azure**, Azure Fundamentals   No expiration

Education

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

- Graduated with First class honours and a Minor in Mathematics