Jonathan Sumner Evans

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WORK EXPERIENCE

Senior Implementation Tech Lead — Can/Am Technologies — Highlands Ranch, CO April 2025 - Present

- Managing and mentoring the team of developers responsible for building integrations with third-party vendors for Teller, a revenue centralisation platform for municipal governments.
- Collaborating with business analysts and project managers to improve requirements gathering and technical feasibility assessment processes across the Implementations team.
- Leading multiple efforts to make integration architecture more declarative and configuration-driven.

Software Engineer — Beeper — Remote

July 2021 - April 2025

- Scaled our backend infrastructure from handling <1,000 users to >100,000 users by sharding traffic from high-volume bridges to a separate Go service called Hungryserv in a backwards-compatible, transparent manner. I created the initial proof of concept and then continued as a core member of the 3-member team that productionized the project over a four-month period.
- Reduced RAM usage for the Telegram to Matrix bridge by ~2TB (80%) by rewriting from Python to Go.
- Reverse-engineered and implemented features for Beeper Mini (iMessage on Android) including media, tapbacks, typing indicators, read receipts, edits, unsends, link previews, and chat metadata changes.
- Implemented the cryptographic key infrastructure necessary for message key backups and interactive device verification in mautrix-go by utilizing the standard Go cryptography libraries.
- Implemented media upload/download and interactive device verification in the Beeper client SDK written in Go which is being used in the next generation Beeper clients.
- Measured message send latency and reliability by instrumenting bridge metrics. Built a Dockerized Go service to process those metrics and send them to BigQuery.
- Reverse-engineered the LinkedIn Messaging API and implemented a LinkedIn to Matrix bridge in Python.
- Designed a framework for importing users' chat history, and implemented it in the WhatsApp, Facebook, Instagram, and Telegram bridges.

Adjunct Professor — Colorado School of Mines — Golden, CO

August 2018 - December 2024

- **Algorithms** $4 \times$ advanced data structures, graph algorithms, dynamic programming, NP-completeness
- Programming Languages $(4\times)$ functional programming, parsers, type systems, formal semantics
- Computer Organization $(1\times)$ RISC-V assembly, pipelining, processor design, memory hierarchy
- Computer Architecture $(1\times)$ cache coherence, virtual memory, branch prediction, multiprocessors

Software Engineer — The Trade Desk — Denver, CO

June 2019 - July 2021

Software Developer Intern — Can/Am Technologies — Lakewood, CO February 2013 - August 2016

PARTION

Colorado School of Mines — B.S. + M.S. in Computer Science — Golden, CO

July 2016 - May 2019

- Outstanding Graduating Senior for Computer Science
- Chair of Mines ACM, Service Chair of Tau Beta Pi, Linux Help Guru of Mines Linux Users Group (LUG)

☑ TALKS & PRESENTATIONS

Matrix Cryptographic Key Infrastructure — Matrix Conference

September 2024

• Provided an overview of how key sharing, key backup, device and user verification, and secret storage operate within Matrix to provide cryptographically secure messaging features.

Hungryserv: A Homeserver Optimized for Unfederated Use-Cases — Berlin Matrix Summit August 2022

• Discussed a Matrix-compatible homeserver that Beeper uses to handle unfederated bridge traffic.

Last updated 11 October 2025