

Jonathan Sumner Evans

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🧰 WORK EXPERIENCE

Software Engineer (Beeper) — Automattic — Remote April 2024 - Present

- Building the next-generation Telegram bridge in **Go**.
- Implementing features in the Beeper Go SDK which is being used by the next generation Beeper clients.
- Implemented key backup and interactive verification in mautrix-go.

Software Engineer — Beeper (acquired by Automattic) — Remote July 2021 - April 2024

- Reverse-engineered and implemented many core features for **Beeper Mini** including sending media, tapbacks, typing indicators, read receipts, edits, unsends, link previews, and chat metadata changes.
- Scaled our backend infrastructure from handling hundreds of users to tens of thousands of users with *Hungryserv* (**Matrix**-compatible homeserver written in **Go**). I created the initial proof of concept and then implemented many core features as a core member of the team that productionized the project.
- Streamlined our support team's ability to chat directly with users by building a Chatwoot bot in **Go**.
- Reverse-engineered the LinkedIn Messaging API and implemented a LinkedIn bridge in **Python**.
- Measured message send **latency and reliability** by instrumenting bridge **metrics**. Built a service to process those metrics and send them to BigQuery.
- Defined 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 Aug. 2018 - Dec. 2023

Responsibilities:

- **Lecture** to classes of 60+ students.
- Hold **office hours** to assist students on projects and homework.
- Coordinate course content and grading policies with TAs and other instructors.
- **Design homework** assignments and worksheets.
- **Develop new projects** with starter code.

Courses:

- **Algorithms** (3×)
graph algorithms, dynamic programming, NP-completeness
- **Computer Organization** (1×)
RISC-V assembly, processor design, memory hierarchy
- **Principles of Programming Languages** (4×)
functional programming, language implementation
- **Advanced Computer Architecture** (1×)
cache coherence, virtual memory, branch prediction

Software Engineer — The Trade Desk — Denver, CO June 2019 - July 2021

Software Developer — Can/Am Technologies, Inc. — Lakewood, CO Feb. 2013 - Aug. 2016

📖 EDUCATION

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

</> NOTABLE PROJECTS

Sublime Music (Author) — github.com/sublime-music/sublime-music — GPLv3 November 2018 - Present

- A native Subsonic music server client for Linux built using **GTK** and **Python**.

Nix Home Manager (Maintainer) — github.com/nix-community/home-manager — MIT April 2021 - Present

👤 TALKS AND PRESENTATIONS

Matrix Cryptographic Key Infrastructure — Matrix Conference September 2024

- An overview of key sharing, key backup, device and user verification, and secret storage within Matrix.

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.