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 (in-progress) iMessage 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.

Last Updated: September 25, 2024