

Tomer Aberbach

tomer@aberba.ch | tomeraberba.ch | github.com/TomerAberbach | linkedin.com/in/tomer-a

Employment

Stainless · *Java, Kotlin, JavaScript, TypeScript*
Software Engineer

Sept. 2024 to Present

Google · *Java, JavaScript, TypeScript, HTML, CSS, SQL, Closure Templates*
Senior Software Engineer

Oct. 2023 to Sept. 2024

- Spearheaded the development of high-fidelity Markdown import and export for Docs, enhancing its compatibility with numerous content management systems and resulting in a user **importing or exporting Markdown every second**.
- Co-led a foundational rearchitecture of the Google Docs backend, frontend, and data model to implement tabs in Docs, including updating all cross-cutting features, resulting in **~1.75 tabs on average for recently opened documents**.

Software Engineer

Apr. 2021 to Sept. 2023

- Increased developer productivity by implementing automatic Markdown detection and conversion for Google Docs and Slides, resulting in **~1.2 million automatic weekly conversions**.
- **Boosted Google Docs collaboration by 8%** by developing a real-time email alert system, complete with subscription settings and document diffs for recent edits, that **sends ~300,000 weekly emails**, as a member of a 3-person team.
- Independently empowered Google Docs users with improved data organization by developing an option to split table cells, leading to **~1.15 million weekly cell splits**.
- Jointly implemented code block support in Google Docs, including automatic Markdown detection and conversion, resulting in **~90,000 weekly code block insertions**, with **25% from Markdown conversion**.
- Integrated Gemini into Google Docs to enable GenAI content generation and rewrites, complete with headings, lists, tables, and other rich content, as a member of a large team, resulting in **~150,000 weekly usages**.

Junior Software Engineer

Mar. 2020 to Mar. 2021

- Streamlined finding new and important comments in Google Docs with comment badging and filtering, **boosting reply creation and comment resolutions by 2%**.
- Developed dynamic Drive sharing emails that automatically update with the latest thumbnail, owner, and edit details via a high-performance endpoint **handling 300 queries per second**, resulting in **6% fewer short sessions** from the emails.
- Simplified Google Docs and Slides authoring with shared prefix substitution rule support, and en- and em-dash substitution, resulting in a **45% increase in substitutions** and no change in undo rates.

Projects

keyalesce · *JavaScript, TypeScript*

June 2024 to Present

- Developed a high-performance JavaScript package that allows developers to use sequences of values as unique keys.

parse-imports · *JavaScript, TypeScript*

May 2020 to Present

- Built a JavaScript package to streamline dependency analysis for library authors.
- Receives **~600,000 weekly downloads** and used by eslint-plugin-jsdoc and the AdonisJS web framework.

Lazy Functional Iteration (lfi) · *JavaScript, TypeScript*

Dec. 2020 to Present

- Implemented a tree-shakeable lazy functional JavaScript iteration library that supports sync, async, and concurrent iteration.
- Designed a "concurrent iterable" protocol for chaining concurrent operations without blocking all values on each operation.

Education

The College of New Jersey (TCNJ)
BS Computer Science and Mathematics Minor

Fall 2016 to Fall 2019

- **Cumulative GPA:** 3.91/4.0
- **Honors:** Dean's List 7/7 Semesters, Summa Cum Laude, UPE Honor Society

Skills

Programming Languages, Tools, Runtimes, and Libraries:

- *Advanced* — JavaScript, TypeScript, HTML, CSS, Java, Kotlin, SQL, Git, Node.js, React, Remix
- *Intermediate* — Python, Ruby, C, Rust

Expertise: Computer Science, Software Engineering, Full Stack Web Development

Native Languages: English, Hebrew