

Taylor Blau

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EDUCATION

- **University of Washington** September, 2017 —
Computer Science Major, Mathematics Minor (In Progress)

Computer Science Coursework:

- CSE 312 – Foundations II
- CSE 332 – Data Structures & Parallelism
- CSE 333 – Systems Programming[†]
- CSE 341 – Programming Languages
- CSE 490 – Toolkit for Modern Algorithms[†]

Mathematics Coursework:

- MATH 307 – Introduction to Differential Equations
- MATH 308 – Matrix Algebra with Applications
- MATH 309 – Linear Analysis[†]

Honors: Dean's List Recipient, all quarters.

- **Cranbrook Kingswood High School** 2012 — 2016

EXPERIENCE

- **GitHub, Inc.** March, 2018 —
Infrastructure Engineer, Git Infrastructure

- Worked on the open-source version control system `git`, and helped maintain our internal fork.
- Operational maintenance of our repository storage tier.

Infrastructure Engineer, Git Ecosystem June, 2016 — March, 2018

- Lead maintainer of Git extension `Git LFS`. Responsible for development, bug triaging, and release planning.
 - * Refactoring object transfer component to retry objects in response to network failure.
 - * Worked with Autodesk engineer to implement Git protocol change and increase object conversion efficiency by factor of 80.
 - * Introduced file locking feature to prevent un-mergeable conflicts. Designed `GraphQL` API to support querying lock data.
 - * Hired and trained new contributors to Git LFS.
- Member of weekly on-call rotation

- **Beam (now Mixer)** January, 2015 — June, 2016
Developer

- Implemented RTMP protocol in Golang for anticipated use in live-video pipeline.
- Won TechCrunch Disrupt (2016, New York). Acquired by Microsoft (2016).

PUBLICATIONS

1. C. Nandi, J. R. Wilcox, P. Panchekha, **T. Blau**, D. Grossman, and Z. Tatlock. Functional programming for compiling and decompiling computer-aided design. *Proc. ACM Program. Lang.*, 2(ICFP):99:1–99:31, July 2018

SPEAKING

- Git Merge (Brussels) February, 2017
Discussed an overview of changes made to the `Git` and `Git LFS` open-source projects to audience of version-control experts. Compared pull request- and mailing list-based workflows.
- Engineering All-Hands, (GitHub HQ) January, 2017
Presented implementation details and design choices of `process` filter changes made in `Git LFS`.

COMPUTER SKILLS

Languages & Software Golang, C, Git, Java, Vim, \LaTeX , zsh, bash

Operating Systems macOS, Linux (Debian)

[†]In progress.