Peter Goldsborough

peter@goldsborough.me • goldsborough.me • github.com/goldsborough

EXPERIENCE

- **Facebook**

  Software Engineer, Stream Processing (Data Warehouse) *Seattle, USA* | 02/2019 —
  - Developing distributed stream processing systems for realtime analytics and ML features,
  - Leading team of 11 on a transactional stream processing product for realtime data warehouse ingestion.

  Software Engineer, PyTorch (Facebook AI Research) *Menlo Park, USA* | 11/2017 — 02/2019
  - Worked on the core PyTorch deep learning framework team,
  - Lead development of PyTorch C++ APIs for training and inference.

- **Broad Institute of MIT and Harvard**

  Research Intern, Imaging Group *Cambridge, USA* | 08/2017 — 11/2017
  - Research on Generative Adversarial Networks for representation learning of microscopic cell images,
  - Poster at workshop on Machine Learning in Computational Biology at NIPS 2017.

- **Facebook**

  Software Engineering Intern, Scribe (Realtime Data) *London, United Kingdom* | 05/2017 — 08/2017
  - Optimized a highly distributed realtime logging framework at the core of Facebook infrastructure,
  - Invited to dinner with Mark Zuckerberg as one of 13 interns (out of several thousand).

- **Bloomberg**

  Software Engineering Intern, Instant Bloomberg *London, United Kingdom* | 11/2016 — 04/2017
  - Extended the Instant Bloomberg (IB) messaging system to trace message paths through datacenters,
  - Wrote a network traffic simulation tool to produce messages to Apache Kafka message queue clusters.

- **Google**

  Software Engineering Intern, gTech *London, United Kingdom* | 08/2016 — 11/2016
  - Built chatbots in Go, using the natural language processing engine inside Google's Allo app,
  - Open-sourced an AngularJS integration of Google's GPT library in an official Google GitHub organization.

PROJECTS

- Years of libraries, tools, tutorials and moonshots on github.com/goldsborough and www.goldsborough.me

- clang-expand is a clang and LLVM based tool to inline function calls and expand macros in C, C++ and Objective-C for visual benefit and easier refactoring. Featured in LLVM Weekly 169.

- Conference talks on Engineering Challenges of Deep Learning, Deep Learning with TensorFlow, C++ Tooling with clang and LLVM and more — you can YouTube my name.

EDUCATION

- **Technical University Munich (TUM)**

  Computer Science *Munich, Germany* | 2015 — 2016
  - 1.2 grade average (1 is best, 6 worst), top 5% in all courses,
  - German national scholarship (1% acceptance rate), Max Weber scholarship (nominated by TUM).

PUBLICATIONS

- *CytoGAN: Generative Modeling of Cell Images*, **Goldsborough**, Pawlowski, Singh, Caicedo, Carpenter (2017)

- *A Tour of TensorFlow*, **Goldsborough** (2016) — arXiv:1610.01178

- *Non-Intrusive Load Monitoring: A Review and Outlook*, Klemenjak, **Goldsborough** (2016) — arXiv:1610.01191