Peter Goldsborough

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WORK EXPERIENCE

- **Bloomberg**, London, United Kingdom   11/2016 — 04/2017
  Intern, IB Distribution
  - Working on message tracing in the Instant Bloomberg (chat) distribution team.

- **Google**, London, United Kingdom   08/2016 — 11/2016
  Intern, gTech

  - Implemented natural language bug queries for a chatbot in Go.
  - Built a web platform to showcase Google's ad technologies.
  - Open-sourced an AngularJS integration of Google's GPT library in an official Google GitHub organization.

- **Technische Universität München**, Germany   04/2016 — 09/2016
  Research Assistant, Chair for Database Systems

  - Investigated interprocess communication techniques for low-latency transmission of database queries.
  - Implemented a software library (10,056 lines of C) that transparently replaces domain sockets by injecting a custom shared memory transmission channel. This speeds up applications by an order of magnitude.

- **Institute of Networked and Embedded Systems**, Klagenfurt University, Austria   10/2014 — 07/2016
  Research Intern

  - Applied machine learning to Non-Intrusive-Appliance-Monitoring (NILM) in Python, C++ and SQL.
  - Invented custom $O(N \log N)$ clustering algorithm to replace existing $O(N^2)$ solution.
  - Wrote 8363 lines of C++, Python and SQL code (working 5-10 hours/week)

SKILLS

- Very Good: C++, Python, Java, C

- Good: LaTeX, HTML, CSS/SASS, JavaScript

- Intermediate: Go, Assembly, SQL, Git

- Prior Exposure: AngularJS, Arduino, AVR C, Qt

- (Operating) Systems: OS X, Linux, Windows, Arduino, ATMEL μ-controllers

PROJECTS

- Leading a team of 12 students to develop an architecture-independent assembly simulator in C++14 and Qt5 supporting RISCV-V, x86 and ARM ISAs. Next to development, I am responsible for (agile) management of the team.

- Freelance tutorial project *Building a Text Editor with PyQt* published on Binpress, currently with more than 75 stars on GitHub. Mentioned in PythonWeekly (issue 155) and PyCoder's Weekly (issues 131 and 132) newsletters.

- Talks on *Deep Learning with TensorFlow* at PyCon UK, Python Munich and PyData London.

- Various projects found at github.com/goldsborough; snippets and scripts at gist.github.com/goldsborough

- Personal blog & website, old at thecodeinn.blogspot.com, new at goldsborough.me.

EDUCATION

- **Technical University of Munich (TUM)**, Germany   10/2015 — Present
  B.Sc. in Computer Science

  - Top 5% in all courses.
  - Awarded German National Scholarship (1% of applicants admitted).

PUBLICATIONS

- Christoph Klemenjak, Peter Goldsborough, *NILM: A Review and Outlook*, Sep. 2016. Preprint: arXiv:1610.01191

- Peter Goldsborough, *A Tour of TensorFlow*, Aug. 2016. Available: arXiv:1610.01178