

Peter Goldsborough

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WORK EXPERIENCE

- **Bloomberg**, London, United Kingdom 11/2016 — 04/2017
Intern
 - Currently deciding on team and project.
- **Google**, London, United Kingdom 08/2016 — 11/2016
Intern, gTech
 - Developing a web platform to interactively showcase Google's ad technologies.
 - Learnt JavaScript, AngularJS, Go and Protobuf from scratch.
- **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: ML, Git, Assembly, SQL
- Prior Exposure: AngularJS, Arduino, AVR C, Qt, Go
- (Operating) Systems: OS X, Linux, Windows, Arduino, ATMELEL μ -controllers

PROJECTS

- Leading a team of 12 students to develop an architecture-independent assembly simulator in C++14 and Qt5 supporting RISC-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 almost 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, PyCon Germany and Python Munich.
- 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
 - Admitted with a score of 100/100.
 - 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](https://arxiv.org/abs/1610.01191)
- Peter Goldsborough, *A Tour of TensorFlow*, Aug. 2016. Available: [arXiv:1610.01178](https://arxiv.org/abs/1610.01178)