

# Peter Goldsborough

[peter@goldsborough.me](mailto:peter@goldsborough.me) • [linkedin.com/in/petergoldsborough](https://www.linkedin.com/in/petergoldsborough) • [goldsborough.me](http://goldsborough.me)

## 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 various 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 can speed 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  $\mu$ -controllers

## PROJECTS

- Various projects found at [github.com/goldsborough](https://github.com/goldsborough); snippets and scripts at [gist.github.com/goldsborough](https://gist.github.com/goldsborough)
- Personal blog & website, old at [thecodeinn.blogspot.com](http://thecodeinn.blogspot.com), new at [goldsborough.me](http://goldsborough.me).
- 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](https://github.com). 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](#).

## 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)