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 Team
  - Developing a web platform to showcase Google's ad technologies.

- **Technische Universität München**, Germany   04/2016 — 09/2016
  Research Assistant, Chair for Database Systems
  - Investigated the efficiency of 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 Experience: AngularJS, Arduino, AVR C, Qt
- (Operating) Systems: **OS X, Linux**, Windows, Arduino, ATMEL μ-controllers

PROJECTS

- 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.
- 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 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 Meetup Munich.

EDUCATION

- **BG | BRG St. Martin High School**, Villach, Austria   09/2011 — 06/2015
  - Graduated as valedictorian with straight A's across all subjects and my thesis.
  - School president 2013/2014; long-time involvement in student representation.

- **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.