

Peter Goldsborough

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WORK EXPERIENCE

- **Bloomberg**, London, United Kingdom 11/2016 — 04/2017
Software Engineering Intern
 - Currently deciding on team and project.
- **Google**, London, United Kingdom 08/2016 — 11/2016
Software Engineering Intern, gTech Team
 - Will be working on visualization software for Google's advertisement technologies.
- **Technische Universität München**, Germany 04/2016 — Present
Research Assistant, Chair for Database Systems
 - Investigating the efficiency of various interprocess communication techniques for low-latency transmission of database queries.
 - Implementing a software library (7000 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 — Present
Research Intern
 - Applying 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++ code so far (working 5-10 hours/week)

SKILLS

- Very Good: C++, Python, Java, C
- Good: Qt, \LaTeX ¹, HTML, CSS/SASS, SQL
- Intermediate: Arduino, AVR C, Git, Assembly
- Prior Experience: JavaScript, Flask, Heroku, VHDL
- (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 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.
- Four-part freelance tutorial project *Building a Text Editor with PyQt* published on Binpress, currently with almost 70 stars [on GitHub](https://github.com). Mentioned in PythonWeekly (issue 155) and PyCoder's Weekly (issues 131 and 132) newsletters.

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 in first semester.

¹See CV. *Beware*: recursion.