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

  ○ Developing a web platform to display Google's ad 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 (10,000 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

  ○ 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: LaTeX[1], HTML, CSS/SASS, Machine Learning

- Intermediate: Git, Assembly, JavaScript, SQL, Qt

- Prior Experience: VHDL, Arduino, AVR C

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

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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 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.

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.

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[1] See CV. *Beware*: recursion.