Mohamed Bassem

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Github, Linkedin
Blog, Codeforces

Education

German University in Cairo   **Sep 2011 - July 2016**

- Bachelor of Science (B.Sc.) in Computer Science.
- Selected undergraduate courses: Operating Systems, Databases, Computer Architecture, Software Engineering, Discrete Mathematics, Data Structures and Algorithms, Networks, Theory of Computation.
- **GPA** : 3.83/4.0 (**A+**).

Employment

Site Reliability Engineer, Intern   **Google, Munich**   **November 2016 - February 2017**

- Developed a load testing framework for project Shield. Written in Go and runs on top of kubernetes.
- Worked on migrating an internal service from one hosting platform to another.
- Introduced some additions to one of the internal cloud deployment tools.

Software Engineer, Intern   **Facebook, London**   **Summer 2016**

- Developed an access control mechanism for employees' access to sensitive data.

Software Engineer, Intern   **Zoobe, Germany**   **Aug. 2015 - May 2016 (Partially Remotely)**

- Developed a C++ library to replace an FTP exporter with a "git" version controlled one.
- Designed and implemented a scalable service using Go responsible for collecting events and then generating, aggregating, scheduling and delivering push notifications from those events.

Software Engineer, Intern   **Trustious, Egypt**   **June 2014 - February 2015**

- Developed an A/B testing library for rails.
- Introduced changes to the caching infrastructure that lead to a 2x speedup in some pages.
- Designed and implemented the Continuous Integration pipeline.
- Implemented a test parallelization framework using Docker that lead to a 4x speedup.

Selected Open Source Projects

- Get a Redis (http://getaredis.mbassem.com): A one click, docker based, auto scaling, redis hosting implemented in Go and hosted on Digitalocean.
- **Servgo** (https://github.com/MohamedBassem/servgo): A simple HTTP server for static websites written from scratch with thread pools in Go.

Achievements and Awards

- ACM International Collegiate Programming Contest (ICPC) 2015 **World Finalist**.
- **2nd top ranked student** in my faculty.
- Ranked **4th twice** in the ACM Arab Collegiate Programming Contest (ACPC), Egypt (2014, 2013).

Skills

- Go, Java, PHP, C++ (Competitive programming), Ruby, Python, HTML, MySQL, Javascript, Bash, Docker, Vim user. **Frameworks :** Ruby on Rails, Yii (PHP), Symfony (PHP), Android.