

# Mohamed Bassem

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## Education

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### 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

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### Site Reliability Engineer, Intern

Google, Munich

November 2016 - Present

- Working on migrating an internal service from one hosting platform to another.

### 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.

### Web Developer, Intern

Delodi, Germany

Summer 2013

- Designed and developed a web app in php that helps people track their goals.

## Selected Open Source Projects

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- **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

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- 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

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