

MATEUS BRAGA

New York, NY

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github.com/mateusbraga

EDUCATION

Columbia University, M.S. in Computer Science, New York, NY *Expected Graduation December 2015*

- Coursework: software analysis, cryptography, problem solving and software engineering.

University of Brasilia, B.S. in Computer Science, Brazil *August 2009 - July 2014*

- Enrolled as an **Exchange Student** in 2012 at Michigan State University.

Toastmasters International, Competent Communication Award, USA *January 2012 - December 2012*

EXPERIENCE

University of Brasilia, Undergraduate Researcher, Brazil, undergraduate thesis *September 2013 - May 2014*

- Studied distributed systems, consistency, and fault tolerance.
- Developed a consistent and reconfigurable distributed memory without consensus algorithm in Go.
- Open sourced the whole project in github.com/mateusbraga/freestore.
- Won the award of best article in the Brazilian XV Test and Fault Tolerance Workshop.

GE Aviation, Software Developer Intern, East Lansing, MI, capstone project *September 2012 - December 2012*

- Participated in the development of a ultra-high-resolution satellite imagery viewer for iPad.
- Managed the team of 3 students in this Michigan State University senior capstone course.
- Contributed as developer, the point of contact with the client, and project manager.

Norfolk Southern, Software Developer Intern, Atlanta, GA, full-time *May 2012 - August 2012*

- Participated in a team of 5 in the development of backend programs to handle train health data from detectors.
- Developed inference code in Java to identify trains based on distance between axles.
- Integrated Java and C/C++ programs using JNI.
- Developed a controller in C for the subsystems of the project.

CJR Junior Enterprise, Director of Information Technology, Brazil, volunteer *July 2011 - December 2011*

- Directed a team of 8 in the information technology management of the enterprise.
- Improved the server backup process by automating it with Amazon Web Services.
- Adapted the software development process by making it more suitable to the context of a Junior Enterprise.
- Promoted the use of MediaWiki as a mean to share knowledge inside the enterprise.

University of Brasilia, Undergraduate Researcher, Brazil, part-time *July 2011 - December 2011*

- Developed an understanding of information security through the project: Trust Models for Computer Security.
- Briefly analyzed the information security standard ISO/IEC 27002.

CJR Junior Enterprise, Information Technology Consultant, Brazil, volunteer *August 2010 - July 2011*

- Managed a team of 3 in the improvement of a medium-size information system using Mantis and SVN.
- Administered the servers of the enterprise, enforcing security policies and organization principles.
- Participated in a team of 2 in the development of a registration system using Codeigniter and jQuery.

SKILLS

Programming Languages: Go, C, Java, Python.

Libraries/APIs: SQL, Redis, OpenSSL, Amazon S3, Google App Engine.

Tools: Git, Docker, Virtualbox, Travis CI.

Architectures: Microservices, Cloud, Replication.