

Amedeo Felice ALBERIO

PERSONAL DATA

PLACE AND DATE OF BIRTH: Milano, Italy | 15 March 1996
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GITHUB: [AAmedeo](https://github.com/AAmedeo)

WORK EXPERIENCE

- Current**
SEPT 2017 | Teaching Assistant at BROWN UNIVERSITY – DEPT. OF COMPUTER SCIENCE
- Teaching Assistant for CSC1270 Database Management Systems
 - Hold office hours, grade homework, attend lecture and run weekly review sessions
- AUG 2017
MAY 2017 | Research Intern at BROWN UNIVERSITY - Database Group
- Worked with Carsten Binning on a research project regarding the use of a new transactional approach to execute graph and machine learning algorithms inside of a DBSM
 - Tested our transactional approach inside real databases (i.e. PostgreSQL)
 - Built a prototype DBSM in C++ to test our technique without the bottlenecks of a full database
 - Implemented and optimized the page-rank and SGD algorithms (inside our small DBSM) in order to match the speed of modern graph/machine learning frameworks such as Galois
- JUNE 2017
AUG 2016 | Website Editor at BROWN UNIVERSITY – DEPT. OF ITALIAN STUDIES
- Maintained the Department Website and social media. Designed posters for events and lectures
- AUG 2016
JUL 2016 | Research Intern at the Euro-Mediterranean Center on Climate Change (CMCC) – Advanced Scientific Computing Division
- Built a parser in C to handle a subset of SQL in a distributed database
 - Project website: <http://ophidia.cmcc.it/> Contributions: <https://github.com/AAmedeo>

EDUCATION

- CURRENT | B.Sc. in APPLIED MATH AND COMPUTER SCIENCE, **Brown University**, Providence, USA
YEAR OF GRADUATION: 2019
COURSES INCLUDE: CS0330 - Introduction to Computer Systems
CS1380 - Distributed Systems
CS1270 - Database Management Systems
CS2270 - Topics in Database Management
GPA: 3.75/4.0
- JULY 2015 | Liceo Scientifico **Leone XIII**, Milano, Italy
Final Grade: 100/100
- JULY 2014 | Exchange Year at **Ballard High School**, Seattle, USA
GPA: 4.0/4.0

PROJECTS

- METRONOME (JAVA/C++)**
 - Collaborated to the project Metronome, a real time Database System (first as part of CS2270 and now as a voluntary contributor)
 - Helped designing the overall architecture of the database
 - Implemented parts of the database storage manager
 - Built an Apache Kafka application used to stream data to the storage manager for testing purposes
- PUDDLESTORE (GOLANG)**
 - Implemented Puddlestore, a distributed file system inspired from [Oceanstore](#) (Project completed as part of CS1380). This involved implementing a [Raft](#) cluster, a [Tapestry](#) cluster and using Apache Zookeeper as membership server
 - Deployed our distributed system over 200 Department computers and built a drop-box looking web application to interact with the cluster
- BOBBER (PYTHON)**
 - Built a simple Facebook chat-bot that help manage web-hooks

COMPUTER SKILLS

Knowledge: Database Design and System Programming
Programming languages: C, JAVA, PYTHON, C++, SQL, SCALA, BASH
Experience with: [TeX](#), GIT, Debian, CentOS, Ubuntu, Windows, MICROSOFT OFFICE, ADOBE PHOTOSHOP, ADOBE INDESIGN

LANGUAGES

ITALIAN: Mother-tongue ENGLISH: Fluent FRENCH: DELF B1