

# ARDEN DERTAT

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## EDUCATION

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- Brown University** **Providence, RI**  
**MS in Computer Science** *2010 - 2012*
- **GPA:** 3.8/4.0
  - **Specialization:** Information Retrieval, Machine Learning
- Massachusetts Institute of Technology** **Cambridge, MA**  
**Visiting Student at EECS** *Fall 2011*
- **GPA:** 5.0/5.0
  - **Course:** Artificial Intelligence at CSAIL (Computer Science and Artificial Intelligence Laboratory)
- Bogazici University** **Istanbul, Turkey**  
**BS in Computer Science** *2006 - 2010*
- **GPA:** 3.3/4.0
  - **Specialization:** Computer Networks, Distributed Systems

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## WORK EXPERIENCE

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- Microsoft** **Bellevue, WA**  
**Bing AdCenter Relevance Full-Time** *June 2012 - Present*
- Improving relevance and revenue of Bing's online advertising.
- Microsoft** **Bellevue, WA**  
**Bing AdCenter Internship** *May 2011 - August 2011*
- Worked jointly with Index Generation and Ranking teams to improve ad relevance.
  - Added a new stream to the main production index using machine learning techniques.
- Vodafone** **Istanbul, Turkey**  
**Core Network Planning Internship** *June 2009 - September 2009*
- Developed and implemented a website to monitor the live traffic of Core Network.
  - Modeled and documented the data traffic flow within the 3G Network.
- Alcatel-Lucent** **Istanbul, Turkey**  
**Internet Protocol Division Internship** *June 2008 - September 2008*
- Designed and implemented a scalable IP network.
  - Practiced TCP/IP concepts (OSI Model, routing protocols, etc.) thoroughly.

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## ACADEMIC EXPERIENCE

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- Brown University Computer Science** **Providence, RI**  
**Search Engine for Wikipedia Project** *January 2011 - May 2011*
- Developed a search engine that crawls, indexes, and answers search queries on Wikipedia articles.
  - Implemented vector space model, tf-idf and PageRank to achieve better query relevance to documents.
  - Integrated machine learning techniques such as document classification and clustering to improve ranking.
- Brown University Computer Science** **Providence, RI**  
**Robot Soccer Project** *September 2010 - December 2010*
- Developed algorithms in Python for autonomous robots to play soccer.
  - Performed path planning, localization, object seeking, and goal scoring tasks on robots.

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## SKILLS

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- **Programming Languages:** C, C++, Python, Java, C#
- **Certificates:** Cisco CCNA (Cisco Certified Network Associate) Certificate
- **Languages:** Turkish (native), Armenian (native), English (fluent), Spanish (competent)