**Alex Karacaoglu**

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**Objective:** I am interested in obtaining an internship to enhance my education and gain real-life insights into the process of developing and implementing new technology. I am a quick-learner and have a desire to use my technical and analytical skills to make a difference for the company

**Education**

**Boston College | Chestnut Hill, MA | Bachelor’s Degree** Expected Graduation: May 2019

* Majors: Mathematics and Computer Science
* Academic Honors: Dean’s List (3 Semesters)
* Relevant Coursework: Abstract Algebra, Computer Organization, Computer Security, Computer Systems, Cryptography, Data Structures, Differential Equations, Euclidean/Non-Euclidean Geometry, Linear Algebra, Logic, Multivariable Calculus, Probability, Randomness, Statistics

**Professional Experience**

**Computer Science Department of Boston College | Chestnut Hill, MA** *Teaching Assistant* August 2017 – Present

* Teaching assistant for the data structures and algorithms course which uses Java for all problem sets and projects. Responsibilities include holding weekly office hours as well as grading and providing feedback on problem sets

**InterSystems | Cambridge, MA**  *Product Support Intern* May 2017 - Present

* Provided much-needed functionality and security enhancements to the Hazard Log, a clinical risk application used with the TrakCare product. Also, successfully designed and implemented an algorithm to enhance management’s understanding of how well the company is doing in upholding its service level agreements with customers. Ended the summer with a formal presentation in front of employees, management and executives
* Current part-time work involves developing a mobile-friendly application to be used by the Technical Services team to help effectively provide services for internal hardware and software issues as well as providing a smooth transition in the form of integration, initial updates and requested enhancements of a new service application for the TrakCare product

**Technical Skills**

* Programming Languages: C, InterSystems ObjectScript, Java, Python
* Database: InterSystems Caché, SQL
* Web Development: AngularJS, Bootstrap, CSS, HTML, JavaScript
* Other: Git, JSON, LaTex, Perforce, REST, Stata

**Projects**

* Automated Cryptanalysis of a Monoalphabetic Cipher: Final project for my cryptography class in the spring of 2017. The goal was to provide the most efficient cryptanalysis to successfully decrypt presented ciphers

**Extra-Curricular Activities**

**4Boston Volunteers of Boston College** September 2015- Present

* Serve as a mentor at MissionSAFE, an organization dedicated to providing a safe place for at-risk Boston youth to flourish and build a community. Joined the leadership council in May of 2017. Responsibilities include leading a group of 12-15 students in weekly reflections, as well as providing input in the club’s decision-making process

**Appalachia Volunteers of Boston College** September 2015- Present

* Traveled to Big Creek, KY (2016) and Galax, VA (2017) for a service immersion trip centered on the community