**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**  Expected Graduation: May 2019

* Bachelor’s Degree in Mathematics and Computer Science
* Academic Honors: Dean’s List (3 Semesters)
* Relevant Coursework: Computer Organization, Computer Security, Computer Systems, Cryptography, Data Structures and Algorithms, Differential Equations, Differential Geometry, Dynamical Systems, Euclidean/Non-Euclidean Geometry, Logic, Multivariable Calculus, Probability, Real Analysis, Randomness, Statistics

**Professional Experience**

**Liberty Mutual Insurance | Boston, MA**

*Incoming Software Development Intern* May 2018 -

**Computer Science Department of Boston College** *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 Corporation | Cambridge, MA**  *Product Support Intern* May 2017 - Present

* Provided functionality and security enhancements to the Hazard Log, a clinical risk application used with the TrakCare Electronic Medical Record System. Also, designed and implemented an algorithm to enhance management’s understanding of how well the company is doing in upholding its service level agreements (SLAs) with customers.
* 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, OCaml, Python

Web Development: AngularJS, Bootstrap, HTML, CSS, JavaScript

Database: InterSystems Caché, SQL

Other: Git, JSON, LaTex, Perforce, REST API, Stata

**Projects**

**Automated Cryptanalysis of a Monoalphabetic Cipher**

* Final project for my Cryptography course. Implemented a probabilistic algorithm that analyzes the distribution of letter frequency to exploit the insecurities of this encryption method and return a decrypted text upon completion

**Leadership**

**TEDx Boston College** October 2017 – Present

*Board Member – Curator/Speaker Outreach and Development*

* Responsible for contacting, interviewing, selecting and preparing speakers for a TEDx event at Boston College in the Spring of 2018

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

*Council Member*

* Serve as an activities coordinator at the Mattapan Early Elementary School. Joined the leadership council in May of 2017 where responsibilities include leading a group of 12-15 students in weekly reflections, as well as providing input in the club’s decision-making process