Tarik Ozkaya

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EDUCATION

The University of Texas at Austin, Austin, Texas   Expected Graduation: May 2017

    Bachelor of Science and Arts in Computer Science (Grade Point Average: 3.67)

- **University Honors** (Fall 2013, Spring 2014, Fall 2014), **College Scholar** (Spring 2015, Spring 2016)
- **INFOSEC Certificate**
- **Business Foundations Certificate**

RELATED COURSEWORK

Ethical Hacking (Upper Division), Programming Languages (Honors, Upper Division), Network Security & Privacy (UD), Autonomous Multi-Agent Systems (UD), Algorithms & Complexity (UD), Operating Systems (UD), Computer Architecture (UD), Data Structures, Discrete Math, Linear Algebra (UD), Probability (UD), Calculus

PROGRAMMING LANGUAGES

Proficient in: C (7 years), Java (5 years)

Experience with: C++, Web Programming (HTML, CSS, PHP, MySQL)

Exposure to: Objective-C, x86 Assembly, L

EXPERIENCE

Rocket Software – Machine Learning Intern   Summer 2016

- Built an ensemble learning model to make accurate time series predictions on DB2 logs using Apache Spark framework (Java)
- Built a RESTful web service to access predictions using Jersey API(Java,MariaDB,MongoDB)

Keynote Systems, Inc. (Dynatrace) – Software Engineering Intern   Fall 2015

- Built a localhost packet sniffer and analyzer using npcap library(C++)
- Filtered packets based on content and port and calculated timings for POST requests

Computer Science Tutor and Cyber Patriot Technical Mentor   Fall 2016 - Present

- Started a computer club in a public high school to teach students programming and cyber security in order to attend programming and cyber-security competitions

University of Texas Information Technology Systems – Intern   Fall 2014

- Prepared glossary of selected network terms for the Office of Telecommunication Services

RESEARCH

Autonomous RoboCup 3-D Soccer Simulation League

- Implemented various high level strategies such as man-marking and call for the ball to the UTAustinVilla code base and tested their applicability to the RoboCup domain (C++)

PROJECTS

Advanced Encryption Standard Implementation *(https://github.com/tarikozkaya/AES-Implementation)*

- Implemented subBytes, shiftRows, addRoundkey round steps for AES encryption and decryption using 256 bit key (Java)

Reading Time Habit Tracker *(http://aileceokuyoruz.me/)*

- Built a multi-user platform which allows users to track their reading habits online while competing with others (HTML, CSS, PHP, and MySQL)
- Added special features including a custom registration system, a page for logging daily reading times, high scores page based on number of days which have at least 15 minutes of reading, and dynamic background which shows random motivational quotes and pictures

Interpreter for L Language (https://github.com/tarikozkaya/pa4)

- Worked in a group of two to write a lexer, a parser, and an interpreter for L language (C++)
- Prevented run-time errors using type-inference

Hide This – Steganography App for Android (In Progress)

- Built an application to hide a given text into selected image without any visible changes (Java)
- Stored the new image to the device, allowing users to decode it to reveal the hidden message

Text-Based RPG Game *(https://github.com/tarikozkaya/Text-Based-RPG-Game-9th-Grade-)*

- Built a text-based RPG game as a high school freshman in which characters fight against each other to get more items to increase their strength, defense and hit points (C)

LEADERSHIP, ORGANIZATIONS AND AWARDS

University Leadership Network, Member   2013 – Present

Association for Computing Machinery, Member   2015 – Present

Peer Led Study Group (PLUS), Facilitator   Spring   2016

Recipient of: Tracor/Frank McBee Jr. Scholarship and Louis E. Rosier Memorial Endowment Scholarship

Nomination by a faculty for: Unrestricted Endowed Presidential Scholarship

SKILLS

- Turkish (fluent)