Pedram Namiranian

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Education

University of San Francisco, San Francisco, California

B.S. in Computer Science, GPA - Major: 3.91 Overall:3.79 — Expected Graduation: December 2019

Work Experience

University of San Francisco, San Francisco, California — September 2016-Present

Teaching Assistant

- Create scripts to automate grading student assignments
- Assist in the teaching of the Java programming languages to multiple classes

Department of Recreation and Community Services, Cupertino, California — June 2015-April 2018

Senior Recreation Leader

- Planned for and lead summer camps for 30 to 75 children at a time
- Trained and supervised 3 new "leaders in training" every week to two weeks

Projects

File Explorer Web Application — **Work In Progress**

- Exploits existing browser technology to display files
- Implements MVC design pattern through Spring and Spring-Boot
- Allows users to add tags to their files for assistance in future searches
- Users may save sessions and account information

Shell — **Fall 2016**

- Created a shell that deals with forking, piping, changing directories and other standard features of a shell
- Implemented custom features such as history and a scripting mode

Secure Communication Through ICMP — **Fall 2017**

- Used ICMP and UDP to transfer information between users
- Encrypted messages using elliptic curve encryption to ensure privacy
- Stored user information in a secure and intuitive manner
- Utilized pycrypto libraries

Search Engine — **Fall 2016**

- Created an inverted index data structure to hold data scraped from webpages using a web crawler
- Searches are conducted through a form on a webpage handled by servlets
- Designed a user friendly front end using HTML and CSS for ease of use
- Implemented JDBC and SQL to store user data

Technical Skills

Programming Languages: Python, Java, C, JavaScript, SQL, BASH, ARMv8, MIPS
Web Design and Creative Skills: HTML/CSS, LaTeX, Thymeleaf, Spring
Security and the Network: Scapy, Wireshark, PGP Security, Pycrypto, OpenSSL, Kali Linux

Leadership, Affiliations, Activities

Participant, **Google Games** — April 2018
Participant, **University of San Francisco Sustainability Hackathon** — October 2016
Board Member, **Philosophy Club** — February 2018-Present
Founder, **USF Mock Trial Club** — September 2016