

Pedram Namiranian

San Francisco, California | (408) 207-2574 | namiranianp@gmail.com | namiranianp.github.io

Education

University of San Francisco, San Francisco, California

August 2016-May 2019

B.S. in Computer Science, GPA - Major: 3.91 Overall:3.79

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 2017

- 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, 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, NS3

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