

Pedram Namiranian

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Education

University of San Francisco, San Francisco, California
B.S. in Computer Science, GPA - **Major:** 3.90 **Overall:** 3.80

August 2016-May 2019

Work Experience

University of San Francisco, San Francisco, California
Teaching Assistant

September 2016-May 2019

- 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
Senior Recreation Leader

June 2015-April 2018

- 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

POC: February 2019

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

Shell

December 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

December 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

December 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 & 2019

Participant, University of San Francisco Sustainability Hackathon

October 2016

Board Member, Philosophy Club

February 2018-May 2019

Founder, USF Mock Trial Club

September 2016