

# Pedram Namiranian

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## Education

**University of San Francisco, San Francisco, California**  
B.S. in Computer Science, GPA - **Major: 3.93 Overall: 3.83**

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**

**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 and perform searches for files using tags and other metadata
- 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 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