University Admissions

Factors

1. GRE score. Used as a filter
2. SOP
3. Profs research
4. Availability of full time and part time jobs
5. Fees
6. Climate
7. Pointer

College Shortlist

1. San Jose State Uni (Software Engineering)
2. ASU
3. University of Utah
4. University of California, Riverside
5. Sunny, Buffalo
6. Texas, Arlington
7. University of waterloo (Mmsc, masc not mmath)
8. Simon Fraser university (Big data)

Consultancy (visa, i20, financial guidance)

1. Maven
2. Avanse
3. Chopras
4. Karthik Stanford

College data

1. Petersons
2. Stupidsid
3. Rankings

GRE

1. Essay Practise
2. Vocab
3. Practise tests

SOP, Recommendations etc.

1. Grad Decision
2. Admission process

SCJP

Ask someone

- Javaranch
- Reddit

Books

- OCA/P 7
- OCA 8, OCP 8

Mock exams

- Enthuware

Videos

- Uttara Video App
- OCA Pearson Value Course

Lab

- Vikram Shastry emails

Notes

- Class notes

Misc

- Exam Faqs
- 12 rules of overriding

Git guide

1. upload the changes

```
$ git push origin master       # git push origin <branch-name>
```

2. link the remote branch

```
$ git remote add origin https://github.com/username/myproject.git
```

3. Commit and add

```
$ git add <file-name> && git commit -m '<comment>'
```

4. Create a branch

```
$ git branch -b my_branch
```

5. switch branch

```
$ git checkout my_branch
```

6. Clone

```
$ git clone https://github.com/username/myproject.git
```

Raspberry Pi

1. How to flash OS to raspberry pi?

1. download raspbian OS img file from: https://www.raspberrypi.org/downloads/ra
2. download win32diskimager from: http://sourceforge.net/projects/win32diskima
3. Run win32diskimager as admin
4. insert sd card into adapter and insert it inside the laptop
5. Run the win32diskimager facility
6. select the drive letter of sd card and img file as downloaded file
7. press write. after write is successul, insert sd card in the raspberry pi and power it up
8. Now either control the Pi through screen, keyboard and mouse or through *ssh*.

2. How to ssh to pi?

1. connect the Pi to the router using ethernet cable
2. find out the ip address of the Pi using the router login page or Ipscanner tool.
3. ssh into the Pi using terminal: 192.168.1.2 as example. If you get connection refused error, ssh is disabled on the OS.
4. default usernanme: pi , default password: raspberry. Veni. Vedi. Vici.

5. Change the username and password using : sudo raspi-config > change password.

6. Increase file size: sudo raspi-config > increase root size

3. How to setup wlan dongle with Pi?

1. Insert Wi-Fi dongle in one of the USB ports

2. Update the interface file as: sudo nano /etc/network/interfaces
   Replace everything with:

```
auto lo

iface lo inet loopback
iface eth0 inet dhcp

auto wlan0
iface wlan0 inet dhcp
wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf

# optional
iface default inet static
address 192.168.1.2
netmask 255.255.255.0
gateway 192.168.1.1
```

Type: Ctrl + X Type: Y

3. Update wpa_supplicant file: sudo nano /etc/wpa_supplicant/wpa_supplicant.c
   Replace everything with:

```
ctrl_interface=/var/run/wpa_supplicant
     ctrl_interface_group=0
     update_config=1

     network={
               ssid="LOLWA"
               psk="roflcopter"
     }
```

Type: Ctrl + X Type: Y

4. Reboot: sudo reboot
5. Reconnect using terminal.
6. Run ifconfig wlan0 to check if it is connected. If connected IP address for wlan address will be shown

wlan commands:

1. check scan results: sudo iwlist wlan0 scan | grep ESSID
2. check current status of wlan: ifconfig wlan0 or iwconfig
3. Turn off wlan: sudo ifdown wlan0
4. Turn on wlan : sudo ifup wlan0

4. How to reserve IP address of Pi on the router

1. Go to Advanced settings > LAN setup > Reserve devices. Add details such as device name, MAC address, ip address to be assigned etc.

2. Apply

Pandoc usage

1. Convert markdown to pdf

```
pandoc Cosmos.md --latex-engine=xelatex -o example.pdf
```

2. Convert markdown to html

```
pandoc -s MANUAL.md -o example2.html
```

3. Convert markdown to html using custom css

```
pandoc --css=benjamin.css --to=html5 input.md -o output.html
```

SQL Resources

Video Courses

- Complete SQL Boot camp series udemy
- SQL for Newbs Masterclass: Beginner Data Analysis udemy

Books

- Head First SQL
- Manga Series

Help

- Ask Reddit
- Stack overflow
- Google (something like eli5)
- YouTube

Sublime Text Shortcuts

Most Important

```
Shift + F11  # Go to distraction free mode
```

Slide in or out sidebar

```
Ctrl + K + B
```

GOTO shortcuts

- Goto **file**

  ```
  Ctrl + P
  ```

- Goto **Definition**

  ```
  Ctrl + Shift + R
  ```

- Goto **Symbol**

  ```
  Ctrl + P. Then press #
  ```

- Goto **brace**

```
Ctrl + M
```

- Create a Pane

```
Alt + Shift + 1
```

- Shift to 2nd pane

```
Ctrl + 2
```

- Search within Project

```
Ctrl + Shift + F
```

- Search and replace

```
Ctrl + H
```

- Create 1, 2 ,3 or 4 panes

```
Alt + Shift + 1, Alt + Shift + 2 ...
```

Compilation

- Compile default

```
Ctrl + B
```

- Open terminal at current path

```
Ctrl + Shift + T
```

- Open Python Interpreter

```
Ctrl + Shift + P. search repl.
```

Editing

- Multi Cursors

```
Ctrl + Click at multiple places
```

- Select multiple words

```
Ctrl + D
```

- Select Line

```
Ctrl + L
```

Bookmarks

- Toggle Bookmark

```
Ctrl + F2
```

- Go to next bookmark

```
F2
```

- Go to previous bookmark

```
Shift + F2
```

- Clear all bookmarks

`Ctrl + Shift + F2`

- Reference