Ameer Khan

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EDUCATION

University of California, Santa Cruz **Santa Cruz, CA**
Bachelor of Science in Computer Engineering: Concentration in Computer Networks **Expected June 2019**

- *Relevant Coursework*:
  - Algorithms and Abstract Data Types (Java & C)
  - Computer Architecture
  - Computer Networks
  - Data Structures (Java & C)
  - Logic Design (Verilog)
  - Microprocessor System Design (C)
  - Network Programming (C)
  - Operating Systems (C)

EXPERIENCE

Computer Tips **Lahore, Pakistan**
Electronics Sales Associate **August 2017 - September 2017**

- Responsible for selling smartphones, laptops and an array of other electronic devices to the customers
- Maintained the sales and inventory records accurately, which resulted in consistent profits and inventory control

Fremont Main Library **Fremont, CA**
Teen Tech Volunteer **June 2013 - June 2014**

- Worked with ten other volunteers to help older adults learn how to use the Internet, smartphones, digital cameras, Microsoft Office and other online web-based accounts such as social media platforms
- Worked as a leader to make sure the older adults left satisfied and to help guide other volunteers as needed

PROJECTS

Smart Diagnostic Toy | C, Python, IDLE, MPLAB X, Uno32 **January 2019 - Present**
Senior Design Project

- Working in a team of five to build a smart toy that can detect developmental delays of young children
- Developing an algorithm in C to generate the game that runs on an Uno32 in order to detect color and shape recognition
- Developing a python script to plot and analyze data from a csv file in order to generate a report to infer any delays of the child

Oscilloscope | C, PSoC Creator, PSoC Microcontroller, Raspberry Pi 3 B+ **November 2018 - December 2018**
Academic Project

- Built a dual-channel oscilloscope that runs on a raspberry pi which is responsible for configuring the oscilloscope parameters, collecting samples from the microcontroller and displaying the data graphically

Personal Website | HTML, CSS **September 2018**
Personal Project

- Built a responsive personal website from scratch using HTML and CSS

Bank Application | Java, Eclipse **August 2018**
Personal Project

- Created a program in Java that reads a csv file of names, social security numbers, account types and initial deposits in order to handle new customer bank account requests

Student Database Application | Java, Eclipse **August 2018**
Personal Project

- Created a program in Java that manages a student's enrollment in order to keep track of information such as name, grade, student ID, school email, password, courses and tuition

SKILLS

Programming Languages: C, Python, Java, HTML, CSS, Verilog, MATLAB
Software Applications: Git, Unix, IDLE, Eclipse, PSoC Creator, MPLAB X, Xilinx Vivado
Hardware Tools: PSoC Microcontroller, Raspberry Pi 3 B+, Uno32, Basys 3 FPGA Board, Oscilloscope, Multimeter, Function Generator