Shadman Kaif

COMPUTER ENGINEERING STUDENT

CONTACT

shadman.kaif@mail.utoronto.ca

linkedin/shadman-kaif

github/shadman-kaif

647-677-5811

SKILLS

Languages Verilog JavaScript C++ Turing MatLab Assembly Python

Systems, Frameworks & Tools Quartus ModelSim MultiSim Node.is Linux Mac OS Git

EDUCATION

Visual Studio Jupyter Notebook

University of Toronto

BASc - Computer Engineering 2nd Year Robotics & Mechatronics Minor 2018 - 2022

AWARDS

Edward S. Rogers Admission Scholarship (June 2018)

UofT Scholar's Award (February 2018)

International Baccalaureate Diploma (July 2018)

Core French Completion (June 2018)

EXTRA-CURRICULARS

First Robotics Competition (September 2017 – April 2018)

Bendale Acres Long-Term Care Home Volunteer (May 2015 – January 2018)

Chess Team (September 2013 – June 2018)

INTERESTS

Video Game Design Data Analysis Web Development Music Sports

WORK EXPERIENCE

Sata Computers Inc.

Technical Associate

Identified customers' desired products and was able to sell the products accordingly

- Informed and educated the customers about business partners associated with the company such as ACN and Xoom Energy
- Removed malware on desktops, installed Microsoft Office on computers, and replaced screens on computers
- Replaced toners on printers, and learned about various parts of computer hardware and software

Bengali Information and Employment Services

June 2019 - August 2019

May 2019 - August 2019

Community Development Assistant

- Created online adverts and assembled a team of twenty-three volunteers for fundraising
- Updated the organization's website frequently using WordPress
- Created and promoted flyers using Adobe Photoshop to promote the non-profit organization's events such as the annual general meeting and the job search and networking building workshop

Art Gallery of Ontario

October 2016 - February 2017

Audio Guide Technician

- Distributed audio guide units, providing a brief "how-to", and assisting with their return, reuse and retrieval, maintaining an adequate stock to ensure smooth service
- Troubleshooting technical issues (malfunctions), to report to the Coordinator re: maintenance and repair
- Monitored inventory levels, and informed Coordinator when levels were unsatisfactory, as required

Berry Road Food Co-op

January 2019 - April 2019

Design Team Member

- Worked alongside five other engineering students as part of the Engineering Strategies & Practices II project
- Given a client statement, the team created Project Requirements and Conceptual Design Space documents in which the client's problem was identified and three engineering solutions were pitched
- Presented the final three engineering students to the client, fellow engineering students and University of Toronto professors

PROJECTS

PYNQ Eye | Python (MakeUofT 2020 Winner)



February 2020

- Created a facial and optical recognition program using Python
- Used Xilinx's PYNQ-Z1 board for hardware acceleration and efficiency
- Trained Neural Network XML using image databases of human faces and eyes
- Executed the program on Jupyter Notebook, a modular run-time environment

Hot Wheels Car Racing Game | Verilog HDL 🗘 🗹

October - November 2019

- Programmed a car racing game using Verilog HDL, VGA display, and Intel Altera's DE1-SOC board
- Made use of a PS/2 keyboard, finite state machines, and clocks and counters
- Used Quartus and Modelsim to troubleshoot and test Verilog code

Asteroid List Al | C++ 🗘 🗹

November 2019

- Created an Al for an asteroid shooting spaceship game provided by a professor at the University of Toronto
- The AI performed 6th best amongst 350 Electrical and Computer Engineering students in the
- Used linked lists, object-oriented programming, and inheritance to create the Al
- Others: Tic-Tac-Toe, Music Library, Rocket Ship Simulation, Traffic Light Simulation, Binary Search Tree Domain Name Server