# Mohammed Alawami

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## Education

JUNE 2019                                                                                          GPA: 3.20

**B.S. Electrical and Computer Engineering / Oregon State University**

**Minor Computer Science / Oregon State University**

## Experience

SEP 2018 – PRESENT

**Student Developer / Enterprise Computing Services, Corvallis**

- **Implementing APIs**
- **Implementing integration tests for APIs**

## Skills

- **Web development**: Designing and implementing a multi-tier application using HTML, CSS, JavaScript, flask, PHP, Database, creating a client and server-side
- **Programming Languages**: C++, Python, JavaScript, C.

- **Software verification and validation**: Unit tests, integration tests, debugging and maintenance.
- **Programming microcontrollers:** AVRs, Raspberry Pi, Using

## Projects

- **Automated Greenhouse**                                                     Sep 2018 - May 2019
  - Monitor the temperature environment
  - Control devices (exhaust fan, irrigation system)
  - Automate the process of adding sensors
  - Monitor the moister of the soil (wireless)
  - Web application includes (Database, UI) to control and view data
  - Python, C, PHP, JavaScript

- **Alarm Clock with FM Radio**                                                Oct 2017 - Dec 2017
  - AVR microcontrollers (ATMEGA 128, 48)
  - FM radio
  - Alarm with options to select the tone and volume control
  - Temperature indicator
  - LCD and 7-sigment display
  - Auto brightness control for the 7-sigment

- **Power Supply**                                                                    Sep 2016 - Dec 2016
  - 120VAC to DC
  - Two channels
  - Output 2V-15V
  - LCD Display

- **Shell program**                                                                              Mar 2018
  - cd, status, exit, execvp    o File redirection    o Foreground, background processes    o Signal handling

- **One-time-Pads (OTP) Encryption Program**                                    Mar 2018
  - Encryption, decryption demon program    o Sender, receiver programs    o Key generator

- **Black Jack game**                                                                          Jan 2016
  - C++    o Classes and structs    o Single/Multiplayer against a dealer