

# Mohammed Alawami

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## Education

JUNE 2019

GPA: 3.25

**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
- Building Docker containers
- 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
- **Software verification and validation:** Unit tests, integration tests, debugging and maintenance.
- **Programming Languages:** C++, Python, JavaScript, C.
- **Programming microcontrollers:** AVR, 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 moisture 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-segment display
  - Auto brightness control for the 7-segment
- **Power Supply** Sep 2016 - Dec 2016
  - 120VAC to DC
  - Two channels
  - Output 2V-15V
  - LCD Display
- **Shell program** Mar 2018
  - cd, status, exit, execvp
  - File redirection
  - Foreground, background processes
  - Signal handling
- **One-time-Pads (OTP) Encryption Program** Mar 2018
  - Encryption, decryption demon program
  - Sender, receiver programs
  - Key generator
- **Black Jack game** Jan 2016
  - C++
  - Classes and structs
  - Single/Multiplayer against a dealer