

NATHAN SCOTT

U.S. Citizen, Secret Clearance (NACLC OPM)

Awardee of DoD SMART Scholarship

Bilingual in English and Mandarin

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<https://www.wsucs.com>

1142 NE Markley Dr., Pullman, WA 99163

Skills/Strengths

Research/Design Methods

- Conceptual Models (UML, flow charts)
- Standard Operation Procedure Dev.
- Agile Development Methodology
- UI/UX Design
- ISO 13485 4.4.1 Design Control
- ISO 9001 4.2.3 Control of Documents
- WSU Research Preparation Course
- Laser Cutting and Prototyping & 3D Printing
- TA for Program Design & Development in C

Software/Hardware

• Desktop Application

- C (12mo+)
- C++ (4mo)
- Python (12mo+)
- Regular Expression (Regex) (4mo)
- Pivotal Rabbit MQ (3mo)

• Web-development

- HTML (12mo+)
- WAMP (12mo+)
- WordPress (12mo+)
- PHP Framework (CodeIgniter) (4mo)
- CSS Framework (Bootstrap) (4mo)
- Data Base (MySQL/Postgresql) (12mo+)
- FTP/Server (FileZilla/ProFTPD) (12mo+)
- Tor Network Website Design (1mo)
- Webmaster Knowledge (12mo+)

• Internet of Things (IoT)

- Raspberry Pi / Arduino Dev. Board (12mo+)
- Mutable Arduino Sensors (5mo)

• Information Technology

- Network Administration (12mo+)
- Windows/Linux (12mo+)

• Tools

- Adobe Design/Microsoft Office (12mo+)
- Virtual Machine (e.g. VMware) (12mo+)
- Version Control (Git/Bitbucket) (12mo+)

Honors & Activities

- DoD S.M.A.R.T Scholarship
- President of Cougs In Cyber (Club)
- Nominate of WSU Hackathon Spring 2017
- Major League Hacking (MLH) 2016 prize
- FIRST Robotics Competition Web Evaluator
- WSU Team Mentoring Program (TMP) Award
- College Outstanding Scholarship Award

Education

B.S. in Computer Science

Washington State University (WSU) Pullman

(Cumulative GPA 3.50/4.00)

Projected graduate on Fall 2018

U.S. Air Force Reserve & Air Force R.O.T.C.

146th AW / FSS | Oxnard, CA

Jul 2012 – July 2018

Loyola Marymount University (LMU) Los Angeles

August 2012 – December 2012

Work Experience

Teaching Assistant (TA)

Washington State University. | Pullman, WA

JAN 2017 – May 2018

As a programming in C course' teaching assistant, I conduct laboratory period once a week. I give an hour lecture at beginning of each laboratory period for about 15 - 20 students.

Remote Sensing Laboratory (RSL)

Washington State University. | Pullman, WA

MAY 2016 – Aug2017

Constructed RSL project's websites along with researching on embedded system Arduino and Raspberry Pi with many air quality related sensors.

Force Support Squadron (FSS)

U.S. Air Force. | Oxnard, CA

JUL 2012 – Present

Manages and directs Services programs, operations, and resale operations.

Information Technology (IT) Technician

W.H.P.M Bioengineering Inc. | Irwindale, CA

MAR 2011 – JAN 2013

Crystal Pacific System, Inc. | South El Monte, CA

FEB 2010 – DEC 2010

Implemented software according to requirements given by the company. Software design in order to be compatible with current hardware by following ISO 13485 design cycle. Instructed required computer skills for employees. Supported and maintained user account information. Improved I.T. department's SOP based on Information security management. Monitored networks for potential risks. Documented, upgraded, and install hardware, software, and peripheral equipment following design installation specifications.

Projects

CougsInCyber.org – Cougs In Cyber official website.

2017

TheANG.org – The United States Air National Guard website.

2017

GenPhys.com – General Physics Laboratory (GPL).

2013

Team-project Bidding System (TBS)

2018

Team-project Bidding System (TBS) is a collaboration software for team-project organizations based in Pullman, WA. TBS has helped project teams, departments, and organizations across the internet improve the way they share information and communicate. <https://tbs.wsucs.com>

Dynamic Force Tracking System (DFTS)

2018

This project goal is to design a force tracking system to enhance WSU Men's rowing team training. This system combines multiple sensor technologies along with C, Python, SQL, HTML, JS, PHP, and so on. <https://cougsincyber.org>

Wireless Sensor Network (WSN)

2016 - Present

WSN is a distributing data acquisition system upon Arduino and Pi system. The purpose of this system is to acquire data from each wireless sensor station and transfer data back to central server for further analysis purpose. By 03OCT2017 WSN collected over 24,819,444 data records <https://wsn.wsucs.com>

Smart Flower

Summer 2017

Smart Flower was my first project along with life flower. This is a smart flowerpot that helps people plants flourish. The self-watering system and built-in sensors monitor plant around the clock.