# Butch T. Cougar

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## SUMMARY OF QUALIFICATIONS
- Thorough understanding of Software Engineering design principles through coursework and projects
- Strong Mathematical background and ability to model real world problems
- Constant desire to learn more and understand how and why things work the way they do as demonstrated in Projects
- Motivated and highly competitive inclination to succeed in any environment or at any task as shown in Projects
- Programming Languages used: R, C#, C, C++, Python, Swift, Java

## EDUCATION
**Bachelor of Science in Computer Science** & Minor in Mathematics; GPA 3.5          Expected May, 2020
Washington State University, Pullman, WA
President's Honor Roll

Relevant Coursework:
Systems Programming, Data Science, Networking, Design and Analysis of Algorithms, Principles of Optimization and Linear Programming, Statistics for Scientists and Engineers and Differential Equations.

**Running Start Program** – completed 50 transferable credits while in high school
Clark Community College, Vancouver, WA

## SKILLS
R, C#, C, C++, Python, Swift, Java; attention to detail and strong work ethic as shown in "Other Experience."
Experience with classroom and research laboratories, computer modeling, Excel, and AutoCAD.

## PROJECTS
**Drone Defense,** Personal group project                                                              2017-2018
- Fabricated a drone that uses pepper spray, stun gun, and other non-lethal methods of apprehending criminals or intruders and incorporates the **OpenCV** project for facial and object recognition
- Build off existing open source software to create unique AI and onboard intelligence ensuring functionality in the event of lost connectivity
- Design the casing/frame of the drone using **SolidWorks** design software
- Built a rough proof-of-concept drone and started designing a ground control station in C# using Visual Studio by integrating flight control, orientation, altitude and similar factors to achieve flight

**Ext2 File system Implementation**, WSU class project                                                  2018
- Wrote a program that ran from the console and simulated a UNIX terminal with limited ext2FS functionality; functions implemented included read, write, symlink, ls, mkdir, rmdir, touch, cat, link and unlink.

## AWARDS AND EXPERIENCES
**Awards:** Rebel Alliance Scholarship, WSU Boeing Scholar, 1st Place team at PretendHacks 2018
**Organizations:** WSU IEEE, Association for Computing Machinery, Gamer Club, Senator WSU Associated Students
**Community Service:** Pullman Senior Center – assist members with computer issues
**Experiences:** 2017 CodeMsh developer conference

## OTHER EXPERIENCE
**Framer/General Laborer**, Watkins Construction, Vancouver, WA                          Jun 2016 - Sept 2017
- Devoted, not just mind, but body to the task
- Success in this role due to meticulous attention to detail

**Freezer Stocker/General Laborer**, Minute Mart, Vancouver, WA                          July 2015 - August 2015
- Strong work ethic allowed for time to help others on the team
- Rewarded for work ethic through an increase in wages and duties

# Voiland College Internships & Career Services ~ACTION VERBS

*Adapted, enlarged list inspired by Employment Development Department of Palo Alto, CA*

| Management skills | Communication skills | Clerical or detailed skills |
|---|---|---|
| administered | addressed | approved |
| analyzed | arbitrated | arranged |
| assigned | arranged | catalogued |
| attained | authored | classified |
| chaired | corresponded | collected |
| contracted | developed | compiled |
| consolidated | directed | dispatched |
| coordinated | drafted | executed |
| delegated | edited | generated |
| developed | enlisted | implemented |
| directed | formulated | inspected |
| evaluated | influenced | monitored |
| executed | interpreted | operated |
| improved | lectured | organized |
| increased | mediated | prepared |
| organized | moderated | organized |
| oversaw | motivated | prepared |
| planned | negotiated | processed |
| prioritized | persuaded | purchased |
| produced | promoted | recorded |
| recommended | publicized | retrieved |
| reviewed | reconciled | screened |
| scheduled | recruited | specified |
| strengthened | spoke | systematized |
| supervised | translated | tabulated |
| | wrote | validated |

| Research skills | Technical skills | Teaching skills |
|---|---|---|
| clarified | assembled | adapted |
| collected | built | advised |
| critiqued | calculated | clarified |
| diagnosed | computed | coached |
| evaluated | designed | communicated |
| examined | devised | coordinated |
| extracted | engineered | developed |
| identified | fabricated | enabled |
| inspected | maintained | encouraged |
| interpreted | operated | evaluated |
| interviewed | overhauled | explained |
| investigated | programmed | facilitated |
| organized | remodeled | guided |
| reviewed | repair | informed |
| summarized | solved | initiated |
| surveyed | trained | instructed |
| systematized | upgraded | persuaded |
| | | set goals |
| | | stimulated |

| Financial skills | Creative skills | Helping skills |
|---|---|---|
| administered | acted | assessed |
| allocated | conceptualized | assisted |
| analyzed | created | clarified |
| appraised | designed | coached |
| audited | developed | counseled |
| balanced | directed | demonstrated |
| budgeted | established | diagnosed |
| calculated | fashioned | educated |
| computed | founded | expedited |
| developed | illustrated | facilitated |
| forecasted | instituted | familiarized |
| managed | integrated | guided |
| marketed | introduced | referred |
| planned | invented | rehabilitated |
| projected | originated | represented |
| researched | performed | |
| | planned | |
| | revitalized | |
| | shaped | |