

# Ronald Keating

Senior Computer Science Major  
University of Idaho  
GPA 3.56

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[github.com/rvnnie](https://github.com/rvnnie)

## SOME CLASS EXPERIENCE

### **Intro Computer Science Courses**

Several CS courses, including basic programming, data structures, various programming languages and types, operating systems, system software, and system engineering.

### **CS336 - Introduction to Information Assurance**

Understanding system attacks, types of encryption, and basic system security. Class also involved a lab, where we used buffer overflow, shellshock, SQL injection, string overflow, and race condition attacks to show the threats against a vulnerable system.

### **CS438 - Network Security**

Learned about OSI models, packet sniffing, more in depth information about each layer and protocols that belong in the layers. Used tools such as GNS3 and various VMs.

### **CS439 - Applied Security Concepts**

Took CompTIA PenTest+ course, understanding topics and principles of penetration testing, including documents, scope, types of attack vectors, etc.

### **CS445 - Compilers**

Understanding how compilers work and implementation of my own compiler for a subset language of C called C-. Further understanding of data structures, type casting, parsing, and compiling. Source code is on my GitHub page.

### **CS447 - Digital Forensics (Deadbox Analysis)**

Hard drive analysis using various Linux command line tools. Learned and implemented topics such as file carving, timelining, and registry ripping.

## EDUCATION

### **Post Falls High School**

Graduated from Post Falls High School in June 2017 with a 3.9 unweighted GPA.

### **University of Idaho**

Graduating May 2021 with a BS in Computer Science.

## OTHER INFORMATION

**Certificates and Minor Cybersecurity**  
Undergraduate Academic Certificate,  
uCertify CompTIA PenTest+  
Completion, & Mathematics Minor.

**Operating Systems** Advanced with  
MacOS and Linux. Frequent use of  
Windows for software tools and system  
hardening.

**Extra Curricular Activity** Involved in the  
Baseball Club and Cyber Defense Club at  
the University of Idaho.

**Projects** Developed an Enigma  
simulation program, an advanced shell  
program, and a subset of C language  
compiler. Currently working on a  
microcontroller LoRa mesh network for  
Capstone Design course.

## LANGUAGES

Advanced in C/C++ and have worked  
with Assembly, Python, shell scripting,  
and C# along with Unity.

## OTHER WORK EXPERIENCE

The Golf Club at Black Rock -  
Summer 2018, Contact:  
(208) 676-8999

Contract Design Associates -  
June 2016- January 2020, Contact:  
(509) 624-4220

