### **Objective**

Third year at the University of California, Berkeley, working towards a BA in Computer Science. The foundation of my experience so far has been mostly theoretical, so I would like to focus on practical application through work experience. My interests lie mostly in the back end of distributed applications. My aim is to expand my knowledge in this field. I also intend to go above and beyond the requirements of the internship , as well as form connections that I can draw upon in the future.

**Technology Skills**

**Ability to code in**

* **Java, C, C++, Python, SQL**
* **Amazon Web Services: Certified developer Associate**

**Experience**

**Intern at Luxottica | May 2017 – August 2017**

I worked with EyeMed’s IT infrastructure team, which maintains the backend of EyeMed’s

web application to securely manage over 46 million clients with their vision insurance

information

The major systems I was exposed to include

* Existing EyeMed’s customer interface system named Cura, the legacy mainframe AS/400 system and TriZetto’s Facets platform which Luxottica is migrating to.
* The system DynaTrace, which tracks server activity

I shadowed the database administrator and the rest of his team of 6-7 people.

The servers I worked with include Windows and Unix servers, and I spent some time attempting

to fix an HTTP to HTTPS redirection error on their webservers.

I produced a blueprint of the entire EyeMed backend systems which included all of their

database servers, platforms, load balancers, and reporting systems.

To improve security I also produced wrapper shell scripts which allowed the user to execute

other scripts over a list of specified servers which they are authorized to.

**CS61A Lab Assistant |** Aug 2016 - December 2016

* Worked with students during office hours and lab, teaching them how to approach problems and recognize their mistakes
* **Prioritized helping students become self-sufficient**

### **Education**

**Graduated summa cum laude from Metea Valley high school**

**NMSC 2015 National merit scholar**

**University of California, Berkeley, CA**

Bachelor of Arts in Computer Science, Expected Graduation May 2019

* **Courses taken** 
  + **Operating systems and systems programming**
  + **Compilers**
  + **Algorithms**
  + **DATA Structures**
  + **Machine Structures**
  + **Structure and Interpretation of Computer Programs**
  + **Linear Algebra and Differential Equations**
  + **Discrete Math and Probability Theory**
* **Currently Taking**
  + **Introduction to Artificial Intelligence**
  + **Introduction to Database Systems**
  + **Introduction to Electrical Engineering**

**AMAZON AWS Training Services, New York**

* + - **Amazon AWS Developer Training**

**College of Dupage, Chicago, IL** July 2016

**Relevant Coursework** – Introduction to C++

### **Computer Science coursework**

**University of California, Berkeley - Machine Structures**

* Designed a 2-stage pipelined CPU and assembler to assemble and run MIPS assembly files that required an understanding of pipelining hazards, logic circuits, and assembly

**University of California, Berkeley – Artificial Intelligence**

* Exposed to a variety of different types of AI learning, including reinforcement learning

**University of California, Berkeley – Database Systems**

* Designed a relational database from implementing the underlying B+ tree to implementing joins and query optimization, and the lock manager

**University of California, Berkeley – Operating systems**

* Designed an operating system enabling filesystem operations, scheduling tasks to run on various threads, as well as implementing an LRU cache