

# ANDREW PETER BOKA

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## Objective

To participate in research or work experience that further develops my problem-solving abilities, teamwork skills and overall competence in the field of computer science and engineering.

## Education

**University of California, Berkeley** – Berkeley, CA

College of Engineering – Department of Electrical Engineering & Computer Science

Pursuing a Bachelor of Science Degree in Computer Science & Engineering

Class of 2020

**Faith Lutheran High School** – Las Vegas, NV

High School Honors Diploma with STEM Computer Science Endorsement

June 2016

### **Relevant College Coursework**

Structure and Interpretation of Computer Programs

Designing Information Devices and Systems

Physics for Scientists & Engineers

Data Structures & Algorithms

Multivariable Calculus

Differential & Integral Calculus

### **Technical Skills**

Programming knowledge in: Python, Java, C#, SQL, Scheme, and Objective C

Research and teamwork skills acquired in prior school projects and internship

Proficiency in Windows/Mac OS, Microsoft Excel, PowerPoint, Word

## Work Experience

### **UNLV Department of Computer Engineering Internship**

Designed a computer game for self-directed physical therapy to children with cerebral palsy as part of an interdisciplinary research program led by Dr. Brendan Morris and conducted in the Real-Time Intelligent Systems Laboratory

June-October 2015

## Projects

### **Ants vs. Some Bees Project (Python)**

Plants vs. Zombies clone created as part of the introductory computer science course curriculum at UC Berkeley. October 2016

Expanded project by creating new enemy classes with novel behavior increasing potential game difficulty.

### **Design of Relational Database Management System (SQL)**

Worked with a team to design and implement a relational database management system as well as a domain specific language with which the user could interact with the database.

February 2017

## Extracurricular and Leadership Activities

UC Berkeley Club Golf Team – Fall 2016 NCCGA Pacific Region Champions

2016-Present

High School Varsity Golf – 2015 Nevada State Championship Team; All-League 1<sup>st</sup> Team; All-State Academic Team

2012-2016

Eagle Scout – Designed and implemented a golf/life skills program for underprivileged children

2015

Young Men's Service League – Philanthropy Chairman

2012-2016

## Honors

Commended Student, National Merit Scholarship Competition

2016

AP Scholar with Distinction, College Board

2016

Presidential Scholar Candidate, White House Commission & U.S. Department of Education

2016

## Papers and Presentations

Boka, A. & Morris, B. "Serious Games: Development of Physical Therapy and Rehabilitation Game for Children with Cerebral Palsy." First Annual OUR-UNLV Fall Undergraduate Research Showcase, Las Vegas, NV, October 16, 2015.