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WORK EXPERIENCE

Teaching Assistant for Computer Science Department: (August 2014 – Present)

- Tutored students with classes in the Computer Science department at Berea College: Software Design and Implementation, Data Structures, Introduction to Game Design, Computational Complexity, Computational Intelligence, Embedded Systems, and Design and Analysis of Algorithms
- Developed class material for courses such as Computational Complexity

Undergraduate Research in Chemistry: (May 2016 – July 2016)

- Analyzed glyphosate degradation timeframe in soils of Berea College's forest
- Gained experience in data collection with an LC/MS instrument
- Presented work to URCPP group at Berea College, Berea Undergraduate Research Symposium (BURS) in poster session, and the Kentucky Academy of Science (KAS)

Undergraduate Research in Computer Science: (May 2015 – July 2015)

- Researched Artificial Neural Networks and their possible applications for motion control
- Developed an affordable traffic counting system using computer vision library OpenCV (background subtraction, running average, blob detection) on a resource-constrained device
- Presented work to URCPP group (July 2015) at Berea College, and BURS in poster session

OTHER WORK EXPERIENCE

- Photographer for Center for International Education at Berea College during welcoming week for new international students (August 2014, August 2015)
- Server Assistant at Boone Tavern (August 2013 – May 2014)
- Photographer for Exposaludable Event, Santa Cruz, Bolivia (April 2012, April 2013)

ACADEMIC BACKGROUND

Berea College: (August 2013 – May 2017)

- Undergraduate Bachelor of Arts in Computer Science with Computational Mathematics Concentration, and Chemistry with General concentration (August 2013 – expected May 2017)
- Overall GPA: 3.611 | Computer Science GPA: 3.786 | Chemistry GPA: 3.185
- Relevant Coursework: Computational Complexity, Programming Languages, Computer Organization, Numerical Analysis, Linear Algebra, Calculus I-III, Data Structures, Bioinformatics, Electronics

Centro Boliviano Americano (CBA); Santa Cruz, Bolivia:

(April 2009 – June 2012)

- Obtained certification of advanced English capacitation, by the Ministry of Education in Bolivia after completing the three-year English program
- Awarded recognition for best academic track among my graduating class

Boliviano Holandes High School:

(January 2008 – December 2011)

- Graduated from high school with the highest grade and best academic track of my class

VOLUNTEERING ACTIVITIES

- Participated in building walls for a house with Habitat for Humanity program in Berea (November 2013)
- Helped with logistics at Exposaludable event (April 2012, April 2013)
- Taught English at school in my hometown for 1 month. (June 2011, June 2012)

SKILLS

- Computer languages: Python, Ruby, Prolog, Matlab C++, C, Racket (Lisp)
- OpenCV, Numpy, TensorFlow, Sphinx, API.AI, Alexa skills
- Linux, Raspberry Pi, Arduino
- Scientific software: Delta, LoggerPro
- Languages: Spanish, English
- 3D animation and modeling
- Photoshop

AWARDS

- Won second place at Gatton FinTech Challenge for presenting a business model idea for "HelloBanking" project (April 19th, 2017)
- Won first place in CatHacks III hackathon with a project called "HelloBanking" that uses natural language processing and Amazon's Alexa to manage bank accounts using voice commands (April 15th-16th, 2017)
- Won first place in DerbyHacks II hackathon with a project called "SnapCal" that uses Tensorflow to detect items in food. Also won 2 in two additional categories: best presentation (Showman award) and best use of domain space (February 24th-26th, 2017)
- 4-year full tuition scholarship at Berea College (August 2013 – Expected May 2017)
- Member of the Epsilon Pi Tau honor society (2016)
- 3-year full tuition scholarship (Abraham Lincoln) for English classes at English institution (CBA) in Santa Cruz, Bolivia (April 2009 – June 2012)
- Awarded the OpportunityFunds scholarship to help pay for applications and exams (TOELF) to get into a U.S. university

INTERESTS

- Artificial intelligence, computer vision, robotics, embedded systems
- Animals
- Languages (formal and natural)

- Photography, 3D modelling and animation

PROJECTS

- NetBuilder: a python package hosted on PYPI servers. It provides a neural network class to create fully connected neural networks with few lines of code
- HelloBanking: Allows one to manage a bank account using voice commands
- SnapCal: Makes use of object recognition to find food items in a picture and report the number of calories