Elijah Soria

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EDUCATION

Saint Mary′s College of California   *Fall 2014- Dec. 2016*

Pursuing B.S. in Mathematics & Computer Science

Overall GPA: 3.901

Iowa State University   *Fall 2013- Spring 2014*

Sophomore classification, Pursued B.S. in Mathematics & Computer Science

Overall GPA: 3.88

ACADEMIC WORK EXPERIENCE

University of Maryland   June 2016- Aug. 2016

Undergraduate Researcher of Computer Science   *College Park, MD*

· Incoming researcher of computer science studying a cryptographic method known as the Algebraic Eraser as a part of the NSF-funded REU program entitled "Combinatorics and Algorithms for Real Problems". The objective of the research program is to learn, implement, attack, and develop new methods for improving the Algebraic Eraser method of cryptography, whilst gaining experience working in a professional academic setting.

Saint Mary′s College of California   June 2015- Aug. 2015

Undergraduate Researcher of Mathematics   *Moraga, CA*

· Researched generating matrices for certain recursive sequences as a part of the Saint Mary′s School of Science summer research program of 2015. The resulting paper entitled "Some properties of generalized k-Pell sequences", which can be found at `http://arxiv.org/abs/1508.03035`, has been published in the Pi Mu Epsilon Journal of Mathematics, Vol. 14, No. 3, pp. 205-217, 2015.

My Neighborhood Tutor   Aug. 2015- Present

Mathematics Tutor   *Lafayette, CA*

· Tutoring multiple levels of mathematics from high school through college in a one-on-one format, ensuring that the tutee has a well-rounded understanding of the material taught in class, delivering mathematical concepts in multiple aspects based on the tutee′s learning habits, and developing a culture of learning with tutee′s.

Saint Mary′s College of California   Jan. 2015- May 2015

Intermediate Algebra Tutorial Leader   *Moraga, CA*

· Supplemented material taught in class to a small group of students, constructed different teaching methods to display material in multiple ways that will help students thoroughly understand the mathematical concepts behind each problem, and administered and grading of weekly quizzes and homework.

Saint Mary′s College of California   Sept. 2014- Dec. 2014

Calculus I Course Grader   *Moraga, CA*

· Graded students′ weekly homework, completed an answer sheet for individual assignments, worked with the course professor to ensure consistent grading that fulfills the standards of the assignment and course requirements.

Iowa State University — Jan. 2014- May 2014
Calculus II Tutor — *Ames, IA*

· Taught and supplemented material taught in class to a small group of students, ensured that tutee's needs are filled and questions are answered correctly, formulated alternative teaching methods that enables students to understand the information efficiently, and created a lesson plan for each session.

UNDERGRADUATE COURSEWORK

Topology	Programming I & II
Algebraic Coding Theory	Computation and Complexity
Analysis of Algorithms	Intro to Upper Division Math
Linear Algebra	Combinatorics & Discrete Math
Advanced Calculus	Calculus I, II, & III
Abstract Algebra	Intro to Probability & Statistics

ADDITIONAL WORK EXPERIENCE

Lindsay Wildlife Experience — June 2015- Aug. 2015
iOS App Developer — *Walnut Creek, CA*

· Developing and editing the iOS application for the Lindsay Wildlife Experience, which included re-designing the user interface, implementing more efficient data storage methods, and working under the guidelines of iOS 8 to ensure backwards compatibility. The Lindsay Wildlife Experience app is written in Objective-C and is available on the iOS App Store.

My Neighborhood Tutor — Aug. 2015- Present
Business Analyst — *Lafayette, CA*

· Researching revenue streams from different sources of advertisement, analyzing trends in sales from different markets using multiple data sources, and presenting data and findings in a formal and succinct manner.

ACCOMPLISHMENTS, VOLUNTEER, AND HONORS

Sole Recipient of Joseph P. McKenna Award for undergraduate researchers in the School of Science Summer Research Program. Awarded to the student whose research project and presentation was judged the most outstanding.

Presenter at the January 2016 Joint Mathematics Meeting Undergraduate Poster Session.

Recipient of Saint Mary's College Honors at Entrance Scholarship for entering upperclassmen displaying high academic achievements

President of the Saint Mary's College Math and Physics Club

Volunteered at Thousand Oaks Elementary School to help conduct a Story Bridge performance about bullying and acceptance

Selected as a student co-leader in the Saint Mary's College Seminar Co-Leader program that pairs undergraduate students with full-time professors to co-lead the classroom discussion of historical texts.

Recipient of Iowa State's prestigious George Washington Carver scholarship awarded to students displaying leadership and academic success

Internship with Iowa State's Agricultural Engineering Department studying the effects of extrusion on DDGS and other raw materials

Knowledge of C++, C, Fortran, Objective-C and Python programming languages