

Steven Ngo

Software Engineering Ph.D. Student

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Education

Ph.D. in Software Engineering

Sep. 2023 - Present

University of California, Irvine, Informatics Department

Advisor: Dr. Joshua Garcia

B.S. in Software Engineering, Minor in Psychology

Sep. 2019 - Jun. 2023

California Polytechnic State University, San Luis Obispo

Overall GPA: 3.88 (Summa Cum Laude)

Research Experiences

Optimizing Mutation Operator Selection Using Conditional Coverage

Aug. 2022 - Jun. 2023

Cal Poly Comp Sci and Software Eng Dept

Advisor: Dr. Ayaan Kazerouni

Modeling Human Behavior in Cyber-Physical Systems

May 2022 - Aug. 2022

USC Info Sciences Institute Research Experience for Undergrads (NSF)

Advisors: Dr. Luis Garcia and Dr. Dave DeAngelis

XSOC CORP Cryptographic Benchmarking and Analysis

Dec. 2021 - Jun. 2022

Cal Poly Comp Sci and Software Eng Dept

Advisor: Dr. Zachary Peterson

Software Security Analysis of Internet-of-Things Applications

Jun. 2020 - Nov. 2020

Cal Poly CENG Summer Undergraduate Research Program

Advisor: Dr. Phoenix (Dongfeng) Fang

Teaching Experiences

UC Irvine Informatics Dept

Sep. 2023 - Present

Teaching Assistant

- Spring Quarter 2023
 - INF43, Intro to Software Engineering

Cal Poly Comp Sci and Software Eng Dept

Jan. 2021 - Jun. 2023

Undergrad Teaching Assistant

- Spring Quarter 2023
 - CPE321, Intro to Computer Security
- Winter Quarter 2023
 - CSC421, Binary Exploitation
- Fall Quarter 2022
 - CPE321, Intro to Computer Security
- Fall Quarter 2021
 - CPE321, Intro to Computer Security
 - CSC305, Individual Software Design & Development
- Winter Quarter 2021
 - CPE321, Intro to Computer Security

Work Experiences

Cal Poly Software Engineering Capstone

Sep. 2021 - Jun. 2022

Group Member (Team fEMR)

GoDaddy

Jun. 2021 - Sep. 2021

Product Security Intern - Software Development

County of San Luis Obispo

Oct. 2019 - Jun. 2021

HR Technology Student Intern

Sodexo

Jul. 2018 - Jul. 2019

Summer Intern - Preparation Cook

Posters

S. Ngo, D. DeAngelis, L. Garcia. "Modeling Human-Cyber Interactions in Safety-Critical Cyber-Physical/Industrial Control Systems". *National Workshop for REU Research in Networking and Systems (REUNS)*, October 22, 2022.

S. Ngo, P. Fang. "Software Security Analysis on Internet-of-Things Application." *Cal Poly College of Engineering Summer Undergraduate Research Virtual Symposium (CENG SURP)*, October 2, 2020.

Service and Extracurricular Activities

Cyber@UCI Collegiate Cyber Defense Competition Team

Sep. 2023 - Present

Trial Member

Cal Poly Noyce School of Applied Computing New Director Search

Oct. 2022 - Jun. 2023

Computing Student Representative

Cal Poly Security Education Club Sep. 2019 - Jun. 2023
President, Corporate Officer, Malware Tech. Team Member

Cal Poly CSSE Dept Winter 2022 New Faculty Search Feb. 2022 - Mar. 2022
Student Feedback Group Member

Honors, Awards, Prizes

Cal-Bridge University of California Doctoral Fellowship Sep. 2023 - Present

UC Irvine Informatics Department Chair's Award Sep. 2023

Cal-Bridge Computer Science and Engineering Scholarship Jun. 2021 - Jun. 2023

Northrop Grumman Foundation Scholarship Endowment May 2022

California Assembly Award of Recognition Jul. 2019
Awarded by Assemblymember Jacqui Irwin, CA 44th District

Boy Scouts of America Eagle Scout Rank Aug. 2018