



## EDUCATION

PhD - (remote, part-time)	Open University	2022 - present
MS Software Engineering - (academic honors)	CSU Fullerton	
BS Fine Arts & Theology - (academic honors)	Biola University	

## Teaching/Presentations

Teaching/Presentations	Topic	Year
ACTION Internship (summer program)	GATE (introduction to cloud-based cyber-ranges)	2024
Early Research Scholars Program (UCSB)	Reproducible CVEs in Docker	AY 23/24
Research Presentation (RAID, Hong Kong)	Container Orchestration Honeypot: Observing Attacks in the Wild	2023
Early Research Scholars Program (UCSB)	Building a honeypot	AY 22/23
Adjunct Faculty (Westmont College)	Concepts of Programming Languages	2021
Adjunct Faculty (Westmont College)	Concepts of Programming Languages	2019
Instructor (ongoing @ UCSB)	Python Workshop for UCSB Faculty	2019
Teaching Assistant (DREAM Lab, UCSB)	Git/Bash Software Carpentries	2019
UCCSC Presenter (UC Davis)	Planning for the Maintenance & Modernization of Legacy Systems	2018
UCCSC Presenter (UC Santa Cruz)	Maintain, Modernize, or Migrate?	2016
Security Symposium Presenter (UC Davis)	The importance of the end-user	2015
UCCSC Presenter (UC Davis)	Open-source inventory management	2009

## EXPERIENCE

### Point Loma Nazarene University

*Associate Professor of Computer Science*

2025 – present

- Teaching courses to Math, Data and Computer Science undergraduate students

### University of California, Santa Barbara

*Research Software Engineer, SecLab*

2019 – 2025

- Engineered a development pipeline to integrate discrete projects from several universities
- Renovated a legacy research network, redesigned lab topology/services, and physically moved the data center while supporting and contributing to ongoing research
- Developed a cloud-based cyber-range to create, refine, and research AI agents

*Bioinformatics Programmer, WAVES lab* 2018 – 2019

- Developed models of natural-human systems in smallholder agricultural settings
- Integrated & verified models against datasets of high-frequency, co-located observations
- Created a system to collect, archive, and serve real-time farmer survey data

*Software Engineer, Campus Enterprise Resource Planning tool* 2014 – 2019

- Translates University business processes & translate into a valuable software product
- Analyzed, design, develop and troubleshoot the existing system
- Provided superb customer service/collaboration directly with admin staff and researchers
- Created a documentation workflow to document an undocumented software product
- Developed a custom agile software engineering process, redesigned client deployment
- Managed the project (after all other technical staff left) transition to a new financial backend
- Negotiated contracts for (and began) the physical to virtual migration.

*Linux Systems Administrator/ Identity & Distributed Systems Programmer* 2010 – 2014

- Wrote a weighted match-merge algorithm to coalesce identity data from disparate sources
- Develop a new campus Identity System to feed into Oracle IDM
- Built Django application with VSphere API to present a customer dashboard of Virtual Machine statistics in real-time
- Designed & built a command line system to automate emergency notification & prioritized shutdown of equipment in the campus data center
- Administered Linux systems for the central campus business systems and core services

*Computer Network Technologist* 2008 - 2010

- Introduced VSphere deployment to provision business services
- Systems administration to support the administration of campus accounting & personnel
- Automated the collection of network inventory data
- Developed a staffed help desk with a ticketing system

**Sieben Design** 2003 - 2008

*CTO, Contract Software Engineer*

- Created solutions for clients on a range of products and technologies
- Linux systems administration, cloud provisioning, PHP, HTML, CSS, Java, ASP...