

# IAN RASMUSSEN

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## EDUCATION

### CHAPMAN UNIVERSITY – ORANGE, CA

Fowler School of Engineering, Bachelor of Science, Computer Science, Business Minor

AUG 2018 – MAY 2022

## WORK EXPERIENCE

### FRONT-END DEVELOPER INTERN – LAWRENCE LIVERMORE NATIONAL LABORATORY JUN 2022 – DEC 2022

- Created and initiated a web application using Angular, primarily using the Cytoscape JS library.
- Constructed a Graphical User Interface to drag/drop nodes and edges in a graph for simulations.
- Demonstrated an alternative way of creating a graph with the ability to change the metadata of objects.

### SOFTWARE ENGINEER INTERN – LAWRENCE LIVERMORE NATIONAL LABORATORY JUN 2021 – AUG 2021

- Participated with Senior Software Developers to improve the efficiency of their tools by enumerating the total pathways of a graph using C++ and Python.
- Assisted on projects to determine potential cyber and physical attacks on an infrastructure.

### DATA MANAGEMENT INTERN – LAWRENCE LIVERMORE NATIONAL LABORATORY JUN 2020 – MAY 2021

- Collaborated with team members test integrity of data sheets and helped raise efficiency of querying data.
- Exercised my skills using Denodo and Excel to create visuals in Tableau.
- Trained oncoming interns to keep them up to speed on the applied software's.

### BUSSER – CAMPO DI BOCCCE

AUG 2017 – AUG 2019

## CORE COMPETENCES AND CLASSWORK

### Python Programming FALL 2018

- Used scripting to create code more efficiently and make libraries that are easily executed on other OS.
- Produced graphs and visualizations with data using Pandas on Jupyter notebooks.

### Java Development FALL 2019

- Dived into many aspects of Object-Oriented Programming with Encapsulation, Abstraction, Inheritance, and Polymorphism.

### C++ Programming SPRING 2020

- Explored several fundamental algorithms, data structures, and Object-Oriented Programming.

### Operating Systems FALL 2021

- Created programs in C/C++ to understand the innerworkings of how Operating Systems function.

### Cyber Security SPRING 2022

- Exploited vulnerabilities of a server using Nmap, SQL injection, and scripts to access a database.

### Compiler Construction SPRING 2022

- Constructed a simple C compiler, building a Parser, Type Checker, and Interpreter using Haskell.

## SKILLS & ACCOLADES

### OPERATING SYSTEMS PROFICIENCY

Ubuntu/Red Hat/Kali Linux

Windows

### SOFTWARE PROFICIENCY

Angular

GitHub/GitLab

Docker

Visual Studio Code

Tableau

Denodo

Jenkins/Denodo Scheduler

Nginx

AWS

### LANGUAGE PROFICIENCY

C/C++

Python

JavaScript/TypeScript

HTML

CSS

Java

SQL

### AWARDS AND LEADERSHIP

Recognized as Leader for Sports Team

Secretary, Phi Kappa Tau Fraternity

SPRING 2018

2021