

## EDUCATION

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**Sacramento, CA** **California State University, Sacramento** **Fall 2018 – Dec 2022**

- **Major:** Computer Engineering, B.S.E. (in-major GPA: 3.75)
- **Programming Coursework:** Algorithms & Data Structures, Operating Systems, Networks, Machine Learning
- **EE Coursework:** Embedded Systems, Computer Arch., Circuits, Logic Design, VLSI Design

**Remote** **UC Berkeley Bootcamp** **July 2023 – Jan 2024**

- **Program:** Full Stack Coding Bootcamp
- **Technologies Used:** HTML, CSS, Javascript, Node.js, Express, SQL, NoSQL, MongoDB/Mongoose, GraphQL, React, Redux Toolkit, Websockets, Bootstrap, Material UI, ChatGPT, Jira, Git/Github

## EMPLOYMENT

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**Technical Analyst** **Inductive Automation** **Feb 2023 - Present**

- Worked on tickets to help customers with troubleshooting and/or creating solutions ranging from:
  - Analyzing wireshark captures to determine network activity for sessions between clients and servers
  - Reviewing logs to discover any output from our software that could help lead to a solution
  - Creating/optimizing Python scripts or SQL queries to help the development of a customer's project
- Graded customer's certification tests
- Answered questions that were posted to our forums

**IT Administrative Assistant** **Matheson Trucking Inc** **Dec 2021 - Feb 2023**

- Managed and created user accounts with Windows Active Directory
- Wiped and set up operating systems on computers
- Wired warehouses for their OT network and measured network speeds

## SOFTWARE PROJECTS

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### Social Media Website Clone

- Developed a Twitter-inspired social media app to connect users to each other
- Used React and Redux Toolkit to manage the user's view and state of the application
- Integrated websockets for real-time messaging in chat rooms and notifications
- Managed all models (users, posts, chatrooms, messages, etc.) with Mongoose
- Utilized: Javascript, React, Redux Toolkit, Express, Mongoose/MongoDB (NoSQL), Node, GraphQL API, Websockets, Material UI

### Self-Driving RC Car

- Implemented a manual and self-driving rc car that can be controlled with a playstation controller
- Used OpenCV to manipulate the input images coming from an USB camera
- Trained neural networks using Pytorch with handmade datasets
- Optimized performance by integrating multithreading to handle the ultrasonic sensor and image input in separate threads
- Utilized: Python, OpenCV, Pytorch, Neural Networks/Machine Learning, Raspberry Pi

### Operating System

- Created an operating system that reacts to user input and schedules simple processes
- Developed drivers for a VGA text display, keyboard, and a TTY interface
- Implemented interrupts for keyboard input, a PIC timer, and software interrupts
- Utilized: C, Assembly, Makefile, Virtual Machines, Linux

## Skills

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**Software:** (*proficient*) Javascript, Python, HTML/CSS (*familiar*): Java, C, SQL