

Calvin Renaud

3109 NE 2nd Ln. Ankeny, IA 50023
cwrenaud8@gmail.com | (515) 238-2256

EDUCATION

Iowa State University: Ames, IA

November 2020

- B.S. Physics
- GPA: 3.38

Relevant Course Work

Physics | *Advanced Classical Mechanics/Electrodynamics*

January 2019 - April 2020

- Developed an understanding of complex mechanical systems and how to solve them including the Hamiltonian and Lagrange methods
- Developed an understanding of complex electromagnetic systems and how to solve them including Maxwell's equations

Mathematics | *Calculus/Differential Equations*

August 2018 - April 2019

- Developed an understanding of the principles of Calculus including partial derivatives and integrals in three dimensions
- Developed an understanding of how to solve differential problems including partial differential problems

Lab | *Electronics*

August 2020 - November 2020

- Gained experience using tools like Oscilloscopes, voltmeters, and power supplies
- Gained experience building circuits with diodes and different types of transistors

Relevant Technologies

- | | |
|-----------|--------------|
| • Git | • Javascript |
| • Python | • Typescript |
| • Linux | • PHP |
| • Docker | • HTML |
| • Systemd | • Kubernetes |

PROFESSIONAL EXPERIENCE

Bayser: Urbandale, IA | *Software Engineer*

January 2022 - Present

- Design, develop, and program machines for industrial automation covering a complex range of requirements
- Develop new features and maintain a custom-built factory management tool
- Oversee and develop new features for a national level tool, tracking details of company used chemicals
- Work across multiple teams spanning several states to define user and compliance requirements of tools and machines
- Deploy applications to various servers running a Linux OS
- Develop programs that needed to run offline for extended periods of time

Renewable Energy Group: Ames, IA | *Data Analyst*

October 2021 – January 2022

- Develop automated data flows to optimize data reporting
- Working on using API data sources to optimize data flows to reduce lag in data communication
- Created and maintained visual reports used to analyze transportation coordination efforts
- Maintained visuals detailing inventory levels of various plants around the country

Apple: Cupertino, CA | *Intern Software Engineer*

June 2021 - October 2021

- Designed and presented a system for searching useful resources
- Designed and developed the database used to store increasing amounts of data
- Designed and developed an application that would integrate with a third-party API and the database
- Wrote the code for processing the user input and properly querying the database
- Ensured compliance with strict security requirements
- Implemented system into production environment

Apple: West Des Moines, IA | *Specialist*

August 2019 - June 2021

- Effectively communicated with customers with different technical understandings the features of products
- Worked in a team to ensure short wait times and exceptional customer service
- Displayed time management skills by maintaining balance between work and school

Institute for Transportation: Ames, IA | *Specialist*

February 2020 - December 2020

- Developed a dashboard of roadway clearance times for the Iowa Department of Transportation
- Developed a dashboard to identify traffic sensors that were recoding incorrect truck counts
- Displayed time management skills by maintaining balance between work and school

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Kreg Tool: Huxley, IA | *Package Assembly*

February 2020 - December 2020

- Package products in a timely and efficient manner and ensured high quality of those products
- Participated in leadership meetings going over new training methods, production changes, and work stations designs
- Contributed to constant improvement team by suggesting several work station redesigns to improve worker efficiency and safety

LEADERSHIP & ACTIVITIES

National Space Society Iowa Chapter | *Vice President*

November 2021 - Present

- Review and vote on all action brought before the governing board
- Develop a format for all chapter meetings and board meetings
- Collaborate with other officers and outside entities to find guest speakers
- Determine membership requirements for the chapter
- Develop the chapter's website