

Jam Jam James Perey
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Seeking an analytical software engineering position. Currently transitioning from 10 years of mechanical engineering in which I have developed a strong problem-solving mindset, learned to deliver quality work in a timely habit both as an individual and in within a team, as well as continuously strive for further education through learning new technologies such as React, Python and MongoDB.

SKILLS

Javascript, Python, C#, HTML5, Bootstrap framework, CSS3, React.js, Node.js, MongoDB, Github, AWS, SQL, Heroku, Netlify, Django, Flask, PythonAnywhere, Twilio

SOFTWARE DEVELOPMENT EXPERIENCE

Coding Coach - The Coder School

Mar 2022 - Sep 2022

- Oversaw student's development and understanding of the Unity program and C# language ranging from scopes, prefab creation, scripting, and more advanced topics such as collision and recursion.
- Actively created custom project plans with individual students to match their growth needs in order to improve their coding abilities.
- Created full-scale project scope and outlined deliverables for a custom video game that the student was able to deliver within a single sprint.
- Leveraged visual studio to identify console errors and debug code to successfully create new features.

ENGINEERING EXPERIENCE

Assistant Engineer II - Hazen and Sawyer

Mar 2022 - Current

- Utilize standard building codes with knowledge of HVAC principles and formulas, etc. to deliver 7-8 HVAC designs to clients per week in a punctual manner.
- Developed engineering standards and specifications for Hazen and Sawyer for use in future projects to streamline the design process, reducing new project start times by 1-2 weeks on average and reducing overall cost
- Brainstormed with clients and colleagues on applicable systems for industrial and commercial projects to find the most efficient use of space and energy to align with client budget

MEP Engineer - HOK

June 2017 - Feb 2022

- Developed HVAC designs using Revit 2015-2022, Bluebeam Revu, and Ansys to deliver 7-10 mechanical design check sets per week for clients.
- Ran calculations and modeling programs such as IESVE and ECAPS to develop heating loads to ensure systems were cooling at acceptable rates
- Lead engineering meetings to delegate duties and tasks to other engineering departments to ensure successful project completion

Junior Mechanical Engineer - Chevron Corp. (Contract)

Feb 2015 - Feb 2017

- Worked with the Replacement-in-Kind (RIK) group, to inspect aging equipment, develop reports and plans, and lead projects to coordinate the proper action to be taken.
- Wrote Building Permit Service's (BPS's) modern website to be more manageable.
- Wrote programs in Java and Visual Basic, utilizing regex patterns to script excel documentation and folder structure.
- Analyzed mathematical simulations to find weak points in piping to highlight weaknesses for retrofit.

ADDITIONAL SOFTWARE DEVELOPMENT PROJECTS

Project - Space Invaders (Python) | Sole Developer [Github Link](#)

Oct 2022

A faithful representation of the classic game space invaders in Python.

- Utilized multiple in-built modules such as turtle and functools to construct interconnecting classes and objects to create a smooth user experience.
- Implemented button activated methods using the .onkey method, allowing users to interact in the game by moving the player and shooting enemies.

MOOV (Python, AWS, HTML5, CSS3, Django) | Coder [Github Link](#)

Aug 2021

Image uploading application that allows users to add furniture to their uploaded images.

- Utilized AWS to upload images for users to place furniture on.
- Implemented login authentication to separate users from seeing each others' floor plans.

EDUCATION

Certification of Completion - 100 Days of Python - Udemy

Sep 2022 - Current

Focus In: Python, Flask, Pandas, Tkinter, SQL, Github, HTML5, CSS3, Requests, Twilio, PythonAnywhere

Software Engineering Immersive Certificate - General Assembly - General Assembly

Feb 2021 - Aug 2021

Focus in: Javascript, Python, React.js, Node.js, MongoDB, Django, SQL, Github, HTML5, CSS3, Bootstrap Framework

Bachelor of Science (B.S.) - Mechanical Engineering - University of California- Merced

Aug 2008 - May 2013

CERTIFICATIONS

Engineer-In-Training

May 2013

Board for Professional Engineers, Land Surveyors, and Geologists

ID # 149500