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Judy H. Kim

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Summary: Former aerospace mechanical engineer seeking a full stack software engineering position. My experiences working in cross functional teams to meet manufacturing goals and my problem-solving skills are transferable to helping create software that prioritizes the user experience.

Software Engineering Skills

Languages: Python 3 · JavaScript (ES5, ES6) · SQL · MATLAB · Java

Frontend: React · HTML · CSS · Flexbox · Bootstrap · Vanilla JavaScript · jQuery

Backend: Node.js · Express · MongoDB · Mongoose · Django · PostgreSQL

Software Engineering Experience

React Full-Stack Collaborative Birding Web App, General Assembly individual project   June 4 - June 15, 2020
- Built a React app using hooks and reusable components that allows users to sign up, create birding sessions, add photos to specific sessions, and share those sessions with other users.
- Created a RESTful API backend on a separate server. Defined schemas for 5 database models, the API endpoints to access the resources, RESTful routes, and controllers to organize the routes.
- Implemented user authorization and authentication using sessions, bcrypt, and browser local storage.
- Designed a responsive front-end using Bootstrap 4, Flexbox, CSS, Font Awesome icons, and media queries.
- Tech stack: React, Node.js, Express, MongoDB, Mongoose

Collabathon with User Experience and Design, General Assembly group project   May 21 - May 22, 2020
- Collaborated with 5 designers and 1 other software engineer during a 2-day hackathon to create an accessible landing page for users and a dashboard for a fictional client, Avocados Anonymous.
- Communicated technical constraints to design team and worked in parallel by using a shared Figma board.
- Used client-side Javascript on user signup form to provide live input verification.
- Tech stack: Node.js, Express, MongoDB, Mongoose

Django Full-Stack Tutor Marketplace Web App, General Assembly group project   May 13 - May 20, 2020
- Worked on a team with 2 other developers and built a platform that connects students and teachers of different languages. Users sign up as a student or teacher and have different permissions based on their role.
- Used the Django ORM to write RESTful routes and implemented full CRUD on 5 linked database models.
- Wrote Django templates and styled a responsive front-end using Flexbox, Bootstrap CSS, and media queries.
- Tech stack: Django, Python, PostgreSQL

Spacecraft Engineering & Leadership Experience

Lockheed Martin Space, Manufacturing Engineer, Sunnyvale, CA   November 2017 - April 2019
- Led a successful proof-of-concept plasma treatment project in the Solar Array group. Programmed network-connected torque tools, a Universal Robot arm, and Plasmatreat machine for manufacturing automation initiatives.
- Performed data analytics on manufacturing non-conformances using Tableau and Brainspace. Created and presented dashboards monthly to the Production Engineering Corrective Action Board.

Space Systems Loral, Mechanical Design Engineer, Palo Alto, CA   March 2015 - August 2017
- Modeled metal and composite parts for satellites using CAD software. Created the drawings used for machining and building complex assemblies. Integrated end user feedback before release to minimize manufacturing errors.
- Directed repairs of critical structural damage on a dozen spacecraft going through assembly and test. Consulted with analysis, manufacturing, design, and quality to fix damage and meet tight schedules.

Education

General Assembly Software Engineering Immersive, San Francisco, CA   March 2020 - June 2020

Cornell University, College of Engineering, Ithaca, NY

Master of Engineering in Mechanical Engineering   January 2014 - January 2015

Bachelor of Science in Mechanical Engineering   August 2010 - May 2014

Fun Activities

Birdwatching · Camping · Cooking · Figure Skating · Gardening · Lacrosse · Skiing