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# Judy H. Kim

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General Assembly Github: [git.generalassemb.ly/judykim-ga](https://github.com/judykim-ga)

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**Summary:** Former aerospace mechanical engineer seeking a full-stack software engineering position.

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## Software Engineering Skills

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

**Front End:** React · HTML · CSS · Flexbox · Bootstrap · Vanilla JavaScript · jQuery

**Back End:** Node.js · Express · MongoDB · Mongoose · Django · PostgreSQL

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## Software Engineering Experience

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**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. Deployed both the backend and React client to Heroku.
- Defined schemas and controllers for 5 database models using both one-to-many and many-to-many relations.
- 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

**Node Full-Stack Photo Album Web App**, General Assembly partner project      April 23 - May 1, 2020

- Built a web app using the MVC design pattern where users can sign up and create private photo albums.
  - Used RESTful routing to implement full CRUD on 3 database models that were defined by Mongoose schema.
  - Integrated the Cloudinary API for image upload, storage, and retrieval.
  - Tech stack: Node.js, Express, MongoDB, Mongoose
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## Spacecraft Engineering & Leadership Experience

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**Lockheed Martin Space, Manufacturing Engineer**, Sunnyvale, CA      November 2017 - April 2019

- Led successful proof-of-concept plasma treatment project in the Solar Array group. Programmed network-connected torque tools, a Universal Robot arm, and Plasmatrete 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 and assemblies for geostationary satellites using CAD software. Created the instructions and drawings used for machining and building complex assemblies.
  - 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.
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## Education

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**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

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## Fun Activities

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