Koppi Kolyvek

Software Developer

CONTACT

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(206) 619 - 4889
Seattle, WA

LANGUAGES

JavaScript
HTML
CSS
Python

TECHNICAL SKILLS

Node.js
React.js
Handlebars.js
MongoDB / Mongoose
SQL / Sequelize
MATLAB

EDUCATION

Cornell University
Bachelor of Science, College of Engineering, Class of 2019

CERTIFICATION

University of Washington
Full Stack Web Development Certification, Summer 2021

PROFESSIONAL EXPERIENCE

Software Engineer - Moosh Systems *May 2020 to Present*
Wellfleet, MA (Remote)

- Designing image processing and object tracking software using Python and OpenCV to analyze drone footage and facilitate research of shark behavior off the coast of Cape Cod.
- Building an application to receive RTMP video streams from drones, edit and manipulate the footage in real time, and send the processed frames to live streaming services such as YouTube Live.
- As sole developer, responsible for researching and implementing all image processing methods to solve challenges and meet company goals.

Structural Engineer - PCS Structural Solutions *August 2019 to March 2021*
Seattle, WA

- Was responsible for taking client specifications and designing structural system solutions accordingly.
- Continually learned state of the art analysis methods to stay on top of the industry.
- Was a member of the process review team to find ways to update and improve company-wide design standards and procedures.

Consulting and Development Intern - Tuchschmid AG *June 2018 to August 2018*
Frauenfeld, Switzerland

- Wrote software that estimates welding time and monetary expenses based on varying user inputs.
- Quickly adapted to using unfamiliar structural engineering software to analyze various structures.
- Familiarized myself with standard project cost estimation procedure and single handedly delivered a cost package for an 85,000 USD project.
- Engaged in professional contact with clients and suppliers across Europe in both German and English.

Student Researcher - Cornell University Bovay Lab *June 2017 to May 2018*
Ithaca, NY

- Collaborated in a research group studying data collection and analysis, earthquake nucleation, and structural vibrations.
- Wrote MATLAB code extensively for data processing, analysis, and presentation.
- Wrote HTML code to display research results on the group's website.
- Created 3D structural models and performed eigenfrequency and implicit dynamic vibration analyses using finite element software.