

Gail Hobbs

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[GitHub](#) | [LinkedIn](#) | [Plum Profile](#) | [Personal Website](#)

SOFTWARE ENGINEER

Developer adept at software innovation at organizations ranging from a United Nations office to a remote startup, proficient in React, Python, SQLAlchemy/ORMs, Azure. 2+ years of technical experience with frontend, backend, web and API development, and data modeling/visualization with Agile teams. Excited to build elegant software for a creative team where I can make tools that empower communities, advance organizational objectives, and spark creative engagement.

TECHNICAL SKILLS

Languages	JavaScript • TypeScript • HTML5 • CSS • PHP • Python • C / C++ • C# • Java • R • Matlab
Databases	PostgreSQL • SQL Server • SQLite • Power BI • Excel
Libraries	SQLAlchemy • jQuery • AJAX • pandas • PyTest • Selenium • TensorFlow • scikit-learn
Infrastructure	Docker • Azure • Google Cloud Platform
Frameworks	React • Redux • Recoil • Flask • Django • Node.js

EXPERIENCE

Frontend/React Developer Intern, GBCS Group Remote • 5/2023 – 8/2023

- Enhanced, reviewed, and maintained code pertaining to the [GBCS Group website](#) and [Aukai](#) platform, handling marine fleet management (commercial ships and vessels) to support tracking of emission targets and repairs
- Collaborated in project management to oversee execution of project quality, cost, software maintenance, direction

IT Innovation Engineer, International Atomic Energy Agency UN Office, Vienna, Austria • 9/2021 – 8/2022

- Led rapid prototyping + built proof-of-concepts with SaaS applications, tested feasibility/scalability of new technologies using React.js, .NET, SQL Server, SharePoint, Jupyter notebooks, CKAN (open source data management system) to advance clientele's innovation objectives
- Configured application workflows on Azure with CI/CD and managed frontend work on apps for timely product delivery
- Adapted responsive design as acting QA tester and debugger for mobile site developments
- Strengthened Power BI reporting and database management on SQL Server for emergency reporting services

Data Science Research Intern, Qualcomm Institute at UCSD UC San Diego • 9/2019 – 3/2020

- Spearheaded research on machine learning model creation for impact measurement on NGO environmental initiatives
- Presented analytics with Python + TensorFlow + pandas to communicate data on gender-focused NGO solutions

Physics Data Analytics Research Intern, University of Copenhagen Copenhagen, Denmark • 8/2018 – 12/2018

- Performed numerical/data analysis for projects in physics involving linear and nonlinear optimization, eigenvalue problems, partial differential equations, using Python/Matlab, in support of various research topics

TECHNICAL PROJECTS

Cesium Development for IAEA Data Platform - Private Repo | [Demo](#)

Full-stack application developed for testing integration with International Atomic Energy Agency's data platform API.

- Created and integrated revamp of Marine Radioactivity Information System (MARIS) using IAEA data API and Cesium
- Implemented functionality for viewing platform-connected data on top of additional marine layer data with React + CKAN for data queries, deployment and YAML pipeline via Azure

Audiofeel - [GitHub](#) | [Demo](#)

Full-stack React + Recoil + Flask application acting as an audio visual journal, storing audio visualizers with AI-generated color mood board

- Built Flask API for storing user account information + journal entries + visualizers
- Integrated ChatGPT, Meyda.js and Three.js libraries for audio analyzer and 3D graphics

Temperature Anomalies Visualizer - [GitHub](#) | [Demo](#)

GUI app for visualizing + animating 2°x2° grid temperature anomalies on country capitals with NASA data, 1880-2023.

- Mastered QT and Folium-Leaflet library in two days time in order to utilize GUI and map tools in application

EDUCATION

Software Engineering Bootcamp, Flatiron School, May 2023

Mathematics-Scientific Computation, Bachelor of Science, BS, University of California, San Diego, June 2020