

Gail Hobbs

Software Engineer

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

Developer with a Bachelor's in Mathematics-Scientific Computation and 2+ years of experience with data analysis and proof-of-concept development. Passionate about building elegant, artful applications. I'm excited by tools that creatively build solidarity and engagement in local communities.

Technical Skills

JavaScript • React • Python • SQL / SQLAlchemy • PostgreSQL • Alembic • Flask • Recoil • HTML • CSS • Java • C / C++ / C# • R • Matlab • Azure • Docker • pandas • scikit-learn • TensorFlow • Git • Excel • Power BI • Power Automate • PowerApp • SharePoint • GIS • DeepLearning.AI Tensorflow Developer Certificate

Experience

Frontend/React Developer Intern, GBCS Group • May 2023—Present (Internship ends August 2023)

Remote

- Maintain, review, and/or adjust code and architecture
- Assist in project management: oversee seamless execution of projects - quality, cost, maintenance of software, the direction of projects

IT Innovation Engineer, International Atomic Energy Agency • September 2021—August 2022

United Nations Office, Vienna, Austria

- Executed rapid prototyping, proof-of-concepts, dashboard creation, and exploring the feasibility and scalability of new technologies for IAEA clients
- Created serverless application workflows on Azure, front end work on React applications, QA software testing for nuclear incident reporting, Power BI reporting and database management on SQL Server for research projects

Data Science Research Intern, Qualcomm Institute at UCSD • September 2019—March 2020

University of California, San Diego

- Researched model creation and NGO impact measurement on environmental initiatives for data catalog of their features
- Conducted analytics with Python + TensorFlow + pandas for gender-focused NGO solutions

Physics Data Analytics Research Intern, University of Copenhagen • August 2018—December 2018

Copenhagen, Denmark

- Performed numerical/data analysis for projects in analysis involving linear and nonlinear optimization, eigenvalue problems, partial differential equations, using Python/Matlab

Technical Projects

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

- Created and integrated revamp of Marine Radioactivity Information System using IAEA data API
- Implemented functionality for viewing platform-connected data on top of additional marine layer data

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

Fullstack React + Flask application acting as an audio visual journal, storing audio visualizers with AI-generated color palettes

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

Vino Geno - [GitHub](#)

CLI wine recommender based on meal ingredient inputs

- Utilized ORMS-SQLAlchemy with Alembic—to manage relationships and associations between wine pairings and meals

Education

Flatiron School

Software Engineering Bootcamp

Graduating May 2023

University of California, San Diego

Mathematics-Scientific Computation, Bachelor of

Science, BS, Graduated 2020