Gail Hobbs
Software Engineer

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GitHub | LinkedIn | Plum Profile | Personal Website

Developer proficient with React, Python, SQL, Azure Cloud Services. Recent Flatiron School graduate with Bachelor's in Mathematics-Scientific Computation and 2+ years of technical experience with object-oriented design, web and API development, and data analysis with Agile teams. Passionate about building elegant, artful applications. I'm excited by tools that creatively build solidarity and engagement in local communities.

Technical Skills

Languages	Python • Java • C / C++ / C# • JavaScript • HTML • CSS • R • Matlab
Frameworks	React • Redux • Recoil • Flask • Node.js
Infrastructure	Azure • Google Cloud Platform
Databases	SQL / SQLAlchemy • PostgreSQL • Alembic • pandas • scikit-learn • Jupyter • Power BI • Excel • GIS • DeepLearning.AI Tensorflow Developer Certificate

Experience

Frontend/React Developer Intern, *GBCS Group* • May 2023—August 2023 • Remote
- Maintain, review, and/or adjust code and architecture with Agile development practices
- Assist in project management: oversee execution of projects–quality, cost, software maintenance, project direction

IT Innovation Engineer, *International Atomic Energy Agency* • September 2021—August 2022 • UN Office, Vienna, Austria
- Executed rapid prototyping + built proof-of-concepts, tested feasibility/scalability of new technologies for clients using React.js, .NET, SQL, Jupyter notebooks, CKAN (open source data management system)
- Created serverless application workflows on Azure, frontend 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 • UC 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, *Univ. 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
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 using IAEA data API
- 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 + 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

Vino Geno - GitHub
CLI wine recommender based on meal ingredient inputs
- Utilized ORMS–SQLAlchemy with Alembic–to manage relationships and associations between wine-meal pairings

Education

Flatiron School
Software Engineering Bootcamp, May 2023

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