

Craig Tyler Celestin | Software Engineer

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TECHNICAL SKILLS

Languages | JavaScript, Python, TypeScript, HTML5, CSS

Front-End | React, Svelte, Chakra UI, Framer Motion, Three.js, Emotion

Back-End | Django, MongoDB, MySQL, PostgreSQL, REST API, FastAPI, RabbitMQ, Websockets, SQLite, NodeJS

Testing/Deployment | Docker, TestClient, PyTest, Jest, Git (Gitlab, Github)

WORK EXPERIENCE

United States Digital Corps | US Geological Survey

Software Engineer Fellow

Remote

Aug 2024 - Present

Fellowship through the General Services Administration of the United States Government (3.3% Acceptance Rate)

- Implemented production tier for the statistics service API to support data load (**AWS RDS**) and refined queries
- Optimized data handling by refactoring stats upserts, timeseries **SQL** logic resulting in a **15%** performance boost
- Deployed comprehensive documentation for [Samples Service MVP](#) and Stats Service improving clarity and mitigating help desk tickets by **80%** for over **2.4 M** researchers and developers
- Engineered a secure, tier-limited **DLQ** redrive utility in iow-operational-utilities using **AWS Lambda**, enabling efficient data recovery within **AWS SQS**
- Implemented percentiles, mean and median for production stats service, improved fetching pipeline by **20%**
- Spearheaded a comprehensive optimization initiative for **Liquibase** database migration models, resulting in a dramatic **30%** enhancement in backend performance pipeline efficiency across aqts-capture services

Backend Engineering Lead | NYCC - Event Experience Management App

Jun 2023 - Nov 2023

Led backend efforts in the architecture and system design of a full-stack events management app

- Orchestrated the implementation of a sophisticated data pipeline and relational models using **sqlite**, resulting in streamlined data management and advanced analytics capabilities (Eliminated on-premise processing time)
- Created RESTful API methods using **Fastapi** for event creation, attendance tracking, account management, user grouping, task lists, user communication as well as notifications using **websockets** and **message queues**
- Successfully aided in implementing security via user authentication and authorization using **OAuth** to provide protected endpoints and role identity

SOFTWARE ENGINEERING PROJECTS

MedEase

Feb 2024

Frontend Engineer | MedEase Prototype

Radiology report management platform

- Leveraged **React** as a state management solution for viewing of exam records, patient profiles, and exam details
- Implemented an intuitive client for medical professionals using the **ChakraUI** library and **Framer Motion**
- Optimized frontend performance through use of advanced hooks and conditional rendering solutions
- Aided in the review of backend models, relationship hierarchy, and suggested new routes in **NodeJS** for optimal usability and user accessibility

Nxtgen

Full Stack Engineer | BE Prototype, FE Prototype

Jan 2024 - Feb 2024

Project-focused network for engineers and designers

- Developed backend and frontend prototypes by leveraging **MongoDB**, **Express**, and **NodeJS** to create profiles, routes, and controllers
- Aided in the prototyping of UI and User Navigation with **Next.js**, **TypeScript**, and **Tailwind CSS**

EDUCATION

Udacity Nano-Degree Program | AI Programming Fellowship

Hack Reactor | Full Stack Software Engineering Immersive with Python and JavaScript Fellowship (2023)

Binghamton University | B.S. Chemistry with a minor in Engineering (2022)