Craig Fiedorek

Durham, NC-based software engineer.

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Experience

Seeq Corporation

Senior Software Engineer   **May 2022 – Dec 2022**

Software Engineer   **Feb 2021 – May 2022**

- Developed enterprise SaaS products for time-series data analysis. Worked on Extensibility Team to enable API access, customizable workflows, add-on visualizations, and user development environments within Seeq software.

- Led architectural decisions for SPy (Seeq Python), a proprietary Python package for Pandas-integrated manipulation of time-series data within the Seeq ecosystem. Reported to CTO with reviewed designs, changes, and challenges within the product. Presented product vision and ongoing designs at Product Architecture Team meetings.

- Led the design and development of Displays, a tool for quickly creating and scaling graphs, tables, and other visualizations across all elements in an organization's asset hierarchy. Subdivided tasks and delegated responsibilities across team of six developers.

- Managed release cadence for SPy, coordinating with all code contributors to determine which features and bugfixes to include in releases and pointfixes. Assessed product growth and scheduled deployment of major releases.

- Built public documentation webpage for SPy package using Sphinx and Readthedocs. Hosted at python-docs.seeq.com.

- Facilitated bi-monthly agile retrospectives for a development team of nine. Managed an action plan for improvements to team behaviors and our software development lifecycle.

- Served as Deputy of Security for Data Lab, a JupyterLab extension that allows users to write custom data pipelines into and out of the Seeq ecosystem. Managed Docker image security scans, evaluated the impact of new CVEs in a weekly triage meeting, and updated package dependencies in pointfix releases.

- Formally mentored a new-hire engineer, meeting daily to assist with onboarding and technical learning.

Education

Duke University 2016–2020

B.S. in Mathematics
B.A. in Computer Science
GPA: 3.5

Personal Projects

Contextualized Carbon 2022

- Web application and API built on a stack of Flask, Pandas, Postgres, React, and Nginx. Deployed using GitHub Actions and Docker Compose to a Google Compute Engine instance.

- Transforms and exposes EPA data on corporate greenhouse gas emissions.

- Hosted at emissions.craigf.io.

Research

Quantum Type Theories 2020

- Senior capstone project on quantum programming language design and the categorical semantics of quantum lambda calculi.

Skills

Python	React	Flask
Typescript	Postgres	NumPy
Docker	OpenAPI	Pandas
Java	Jersey	Nginx
Kotlin	Google Cloud Platform	