Craig Fiedorek

Durham, NC-based software engineer.

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Experience

Seeq Corporation

Senior Software Engineer **2022–present**

Software Engineer **2021–2022**

- Develops enterprise SaaS products for time-series data analysis. Works on Extensibility Team to enable API access, customizable workflows, add-on visualizations, and user development environments within Seeq software.
- Leads architectural decisions for SPy (Seeq Python), a proprietary Python package for Pandas-integrated manipulation of time-series data within the Seeq ecosystem. Reports to CTO with reviewed designs, changes, and challenges within the product. Presents 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. Worked with a spread of full-stack technologies including Postgres, Swagger, Jersey, React, Angular, Flux, and Protractor.
- Manages release cadence for SPy, coordinating with all code contributors to determine which features and bugfixes to include in releases and pointfixes. Assesses product growth and schedules deployment of major releases.
- Built public documentation webpage for SPy package using Sphinx and Readthedocs. Viewable at https://python-docs.seeq.com.
- Facilitates bi-monthly agile retrospectives for a development team of nine. Manages an action plan for improvements to our team behaviors and our software development lifecycle.
- Serves 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. Manages Docker image security scans, evaluates the impact of new CVEs in a weekly triage meeting, and updates 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

Research

Quantum Type Theories **2020**

- Senior capstone research project investigating functional quantum programming language design and the categorical semantics of quantum lambda calculi.
- Developed a calculus for constructing isometric quantum channels and defining generalized inductive quantum datatypes.

Volunteering

Citizens' Climate Lobby **2022**

- Member of Raleigh-Durham chapter, advocating for federal carbon dividend legislation.

Languages and Technologies

Python	React	NumPy
Java	Angular	Pandas
Typescript	Postgres	Jupyter
Kotlin	Swagger	Pillow
Coq	Jersey	Matomo