

William Garon Smith

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[LinkedIn](#)

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Camden, Maine

SKILLS

React.js, Express, JavaScript, SQLAlchemy, Redux, SQL, Git, HTML5, CSS3, Sequelize, Python, Postgres, Flask, Docker, Pandas, Numpy, Agile, Pairboarding, Pytest, Mocha, Chai

PROJECTS

SyncUp

A Meetup-inspired application to connect like-minded individuals and facilitate event creation and attendance.

- Engineered a search system to retrieve and store relevant event and event tags in Redux store using a filter table approach.
- Implemented front to back user authentication utilizing Flask-Login, Werkzeug, and Redux.
- Served as the primary point of contact for debugging assistance, ensuring clean, quality code was implemented.
- Utilized AWS S3 to facilitate user image uploads to be displayed in custom React components allowing users to create profile photos.

Pursuit of Empty

A pivotal tracker based application to facilitate group project organization through a shared Kanban board.

- Designed a Postgres schema to efficiently store tasks and prioritize stories within a user-friendly drag and drop functionality.
- Built dashboard with custom React components, allowing project owners a larger subset of functionality vs project members.

Marvelous Movies

A good reads inspired application aimed to allow users find, archive, and rate movies.

- Built a responsive AJAX movie rating system allowing users to see rating persist through the entire application.
- Composed database schema and frontend implementation rendering a user's follower feed through the use of aliased Postgres tables and AJAX.

EXPERIENCE

Senior Associate

MSCI May 2019 - August 2020

- Maintained the entire UK equity book of business across all analytics products (\$15 million yearly revenue.)
- Authored and distributed two part research series analyzing shifts in equity factor crowding during the Covid-19 market drawdown and recovery utilizing Pandas and Matplotlib.
- Defined portfolio optimization tasks to assist clients achieve portfolio risk/alpha targets using Barra Portfolio Manager.
- Saved \$150,000 account cancellation, due to a shift in data vendor's terms of use, by designing and writing a program to extract data by integrating scheduled reports using MSCI APIs, Suds (SOAP client), and Pandas.
- Wrote a script using Pandas and Numpy to calculate custom factor return covariance matrices with variable half-life and weighting methodologies to assist the research department in conducting a seminar to over 200 global attendees.
- Oversaw client beta testing of new flagship product, MSCI Beon, for the UK region in order to design best practices and relay feedback to product and engineering teams to expedite product full launch.

Portfolio Risk and Analytics Advanced Specialist

Bloomberg LP January 2017 - April 2019

- Co-authored internal paper 'Factor Models in PORT' used by global sales, support, and analytics teams to bring transparency to the applied calculations within the Bloomberg PORT application.
- Designed and implemented curriculum taught globally to 500+ aspiring portfolio analytics specialists.

Exchange Market Data Team Leader

Bloomberg LP June 2015 - December 2016

- Managed performance and development of six direct reports to meet and exceed team and company metrics.
- Redesigned UI of Bloomberg Terminal's 9th most used function (EXC) to facilitate a faster exchange data entitlement.

EDUCATION

App Academy - Immersive software development course with focus on full stack web development (October 2020 - March 2021)

University of Pennsylvania BA - Political Science (Spring 2013)

The Lawrenceville School (Spring 2009)