# Charlie Carter

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**Professional Summary:**

*Research analyst passionate about using analytics to create equity, improve efficiency, and drive evidence-based decision making in government. Experienced utilizing varied data sources and tools to build research datasets and conduct analyses for informing policy decisions.*

**Skills & Proficiencies:**

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| --- | --- | --- | --- | --- |
| Policy Research | Communication | Data Visualization | Statistical Analysis | Machine Learning |
| Tableau | Power BI | Plotly Dash | R | Python |
| Excel | Scikit-Learn | Redshift | PostgreSQL | MSSQL |

**Experience:**

**Luminosity** *Policy Research Analyst*

* Built an automated SQL system for generating key performance metrics for the New York City justice system utilizing siloed data from across multiple agencies, culminating in the creation of a continually updated criminal justice research dataset tracking three years of court, corrections, and pretrial services data.
* Designed, built, and maintained a set of nine Tableau dashboards for tracking and reporting research, performance and outcome measures to shareholders in the criminal justice system of New York City, the Mayors Office of Criminal Justice, and the public.
* Carried out research requests and reviews to inform policy and communications for clients, shareholders, and researchers, including generating summary statistics, aggregate data and visualizations to answer key policy questions relating to bail reform, pretrial justice, gun violence, and reform efforts.

**Crime Lab New York** *Data Science Intern*

* Worked on a team building a model using Scikit-Learn for predicting domestic violence revictimization as an aid for allocating prosecutorial resources
* Contributed to an internal Python toolset for automating feature generation for machine learning pipelines

**Sagicor Life Insurance** *Actuarial Intern*

* Built an automated system for carrying out regularly conducted actuarial experience studies using Microsoft SQL & Stored Procedures
* Automated numerous miscellaneous actuarial procedures using Excel, Visual Basic, and Python

**Education:**

**Master** *Mathematics & Statistics*

* **Thesis Topic:** Fractional Random Weighted Bootstrapping for Classiﬁcation on Imbalanced Data with Ensemble Decision Tree Methods

**Bachelor** *Molecular Biology, Mathematics minor*