Max Bahar (he/him)

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SUMMARY

- Data science master's student with 3+ years of experience integrating geospatial analytics and mapping software into business operations across real estate, healthcare, and government.
- Skilled in evaluating and customizing mapping software, integrating complex datasets into workflows, and aligning technical solutions with business, regulatory, and sales needs.

EDUCATION

Harvard University Expected: May 2026

M.S. Data Science

Relevant Coursework: Advanced Topics in Data Science, Machine Learning, Data Visualization

Boston College Graduated: May 2021

B.A. Economics and Computer Science

Relevant Coursework: Algorithms, Econometric Methods, Computability and Computational Complexity

TECHNICAL SKILLS

Maptitude Mapping Software, QGIS, Python (Keras, pandas, scikit-learn, XGBoost), SQL, Tableau, D3.js

PROFESSIONAL EXPERIENCE

GoTo Financial May 2025 - Aug 2025

Data Science Intern, Risk Team Jakarta, Indonesia

- Integrated new data sources into automated QRIS scam detection systems (handling 3M+ transactions per day), streamlining operations to reduce blocked transactions by 58.6% while sustaining scam detection performance.
- Collaborated with cross-functional teams to turn business needs into technical specifications, adjusting model thresholds to minimize user friction in QRIS transactions while maintaining system performance.
- Presented findings to business and technical stakeholders, translating technical model outcomes into actionable insights that guided adoption of new system features.

Caliper Corporation Jul 2022 - Jun 2024

Analyst, Maptitude Mapping Software Massachusetts, USA

- Partnered with Fortune 500 clients in real estate, banking, and healthcare to integrate and customize Maptitude within sales, compliance, and business intelligence workflows, tailoring features to organizational needs.
- Automated geospatial data preparation and processing of FFIEC banking compliance datasets (11M+ records) using Python and GISDK, improving data quality and streamlining regulatory analysis.
- Developed and delivered geospatial training programs for 100+ clients, enabling non-technical stakeholders to adopt and apply spatial analytics in decision-making.
- Analyzed Albertsons and Kroger store locations to evaluate the economic impact of their merger, leveraging Maptitude for spatial and demographic trend analysis; findings were published in a blog post recognized by the Financial Times.

RELEVANT PROJECTS

Independent Research (Data to Actionable Knowledge Lab, Harvard University) Jan 2025 - May 2025

From Wearable Data to Actionable Stress Insights

- Integrated heterogeneous data sources (wearable physiological data, user-tagged events, sleep data) into a unified system, harmonizing inputs to create a reliable data foundation for downstream analysis and visualization.
- Designed interactive visualization tools (time-series overlays, intervention comparisons, temporal heatmaps) that enabled participants to evaluate the impact of activities such as rest, social interaction, and mindfulness on stress.
- Translated noisy physiological signals into actionable insights, demonstrating how tailored visualizations can support decision-making and adoption of data-driven tools.

Intro to Data Science, Data Visualization (Harvard University) Sep 2024 - Dec 2024

Predicting Voter Turnout in Massachusetts using Voter Demographics

- Built an end-to-end data pipeline to integrate voter registration records with geospatial Census data, cleaning and aggregating datasets at the block group level for streamlined analysis.
- Developed and optimized machine learning models (random forest with feature selection and interpretability methods) to translate geospatial data into insights that could inform decision-making for planning and policy.
- Created an interactive D3.js website with dynamic maps and charts, enabling stakeholders to explore demographic trends, turnout variation, and model insights through a user-friendly interface.

LEADERSHIP ROLES

Harvard University Graduate Advisory Council

Committee Member Sep 2024 - Dec 2024

- Organized various events to foster interdisciplinary collaboration among graduate students in Harvard's Data Science and Computational Science & Engineering programs, strengthening academic networks and peer support.