

John Urbanik

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[/johnurbanik](#) on github/twitter/linkedin

Mission-driven and ethically conscious data scientist and engineer. Demonstrates strong intuition and is able to dial into details while keeping the big picture in sight. Adept at switching contexts between research, applied data science, data engineering, people management, and strategy work.

Values exploratory data analysis, explainability, reliable data pipelines, and engaging stakeholders/users in the development process. Comfortable learning new technologies on the fly.

Passionate about the development of end-to-end systems that promote equity or enable new workflows, insights, and experiences. Emphasizes communication, transparency, team, and mission. More detailed resume available on request.

EXPERIENCE

otto hearing, Founder, CTO — Feb 2019 - Mar 2020

Developing tech to improve the quality of life for people with hearing impairments.

Keywords: DSP, deep learning, full-stack engineering, virtual devices, computational audio, real-time computing.

Tech Consulting (Freelance) — Jun 2018 - Current

Worked as a data scientist, technical architect, and software engineer for a variety of clients. More details on request.

Keywords: Search, recommender systems, performance engineering, CUDA, business strategy, spatiotemporal analysis.

Predata, Lead Data Scientist and Data Engineer — May 2015 - Apr 2018

Managed and contributed to team building and deploying models to predict political events using web traffic metadata.

Keywords: Time-series analysis, robust statistics, explainable ML, data warehousing, repeatable experimentation.

Palantir, Forward Deployed Engineer — Aug 2014 - May 2015

Led team developing E2E product that allowed interactive optimization of TV advertising by nontechnical users.

Keywords: Constrained optimization, gradient boosting, active Learning, HCI, human-centered computing.

Poptip, Software Engineer — Sep 2013 - Aug 2014

Built E2E products for real-time topic-modeling and analysis of social media data. Acquired by Palantir.

Keywords: Bayesian nonparametric models, NLP, stream processing, distributed systems.

EDUCATION

Princeton University, B.S.E. Electrical Engineering — 2009-2013

Received certificates (minors) in Applications of Computing and Robotics and Intelligent Systems.

Paid Research Assistant working on graph theory, machine learning and DSP. Details available on request.

Recurse Center, Fellow — May 2020 - June 2020

Self-directed programming retreat. Info on projects (comp epi, feature learning, automata theory) available on request.

SKILLS

Languages: Strong in Python, Go, JS, SQL. Working knowledge of Java, Scala, C/C++, R, Julia, MATLAB, ...

Frameworks and Tools: PostgreSQL, Docker, AWS, Spark, Kafka, Airflow, Redis, Pandas, scipy stack, TensorFlow/PyTorch, Pyro.ai, NoSQL, ...

Techniques: Exploratory data analysis, data cleaning, feature engineering, time series analysis, Bayesian statistics, GIS, data flow programming, data warehousing, integer programming, signal processing, algorithmic bias, deep learning, multi-task learning, real-time computation, distributed systems.

Soft Skills: Cross-functional communication, business acumen, stakeholder management, team building, data ethics, systems thinking, adaptability.

Technical Interests: Explainable ML, causal inference, complexity science, computational neuro/bio/epi/sustainability/audio, agent-based models.