

JUSTIN C. AUSTIN

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EXPERIENCE

Machine Learning Engineer – Tech Lead 2020–Present

Kensho Technologies *McLean, VA*

- Lead design and development of the system architecture for a greenfield topic modeling project (\$60+ million valuation), including the document model, query system, and core abstractions
- Manage coordination between 3 teams and 7+ developers, including prioritization and assignment of tasks in consultation with the product team and relevant stakeholders
- Identify problems shared between ML teams and drive requirements for internal ML Ops services
- Design and lead an internal study group centered around machine learning productionization, including topics like training data management, property testing, dependency management, and API design

Machine Learning Engineer 2018–2020

Kensho Technologies *McLean, VA*

- Co-led redesign of our entity linking codebase, with an emphasis on defensive programming, type-driven design, and runtime performance
- Co-developed a patent-pending process to dynamically cluster news articles in real-time, providing a 150x speed-up over the previous solution and supporting hundreds of articles a second
- Ported feature generation code from Python to Rust (the first production use of Rust in the company), speeding up performance by over 50x and uncovering several latent bugs

Software Engineering Intern 2017–2018

Kensho Technologies *McLean, VA*

- Developed a Python service to manage, deploy, and serve machine learning models used in various applications, including a document viewer and a natural language processing pipeline
- Developed scikit-learn models to classify news articles by topic

EDUCATION

University of Pennsylvania 2014–2018

- B.S.E. in Computer and Information Science and Philosophy, *cum laude*

SKILLS

Proficient: Python, Rust, Linux, Git, Elasticsearch, MongoDB

Familiar: Java, C, PostgreSQL, AWS, Docker, Redis

Learning: React, JavaScript, TypeScript, TLA+