Gareth Middleton

Experienced technical leader pursuing opportunities in Machine Learning and Artificial Intelligence. Proven record of engineering project management, execution, and customer success. Self-directed and reliable, with strong leadership and teamwork skills, delivering results and advancing business interests. Passionate about learning new ideas, thriving in fast-paced R&D.

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RELEVANT EXPERIENCE

Juris Futura LLC, Boulder CO — *Cofounder*

October 2021 - Present

Software engineering and data science consultant, building NLP solutions in the legal space. Executing contract efforts with legal technology businesses to grow and solidify their data processing pipelines in cloud environments, leading to significant upgrades in product performance.

Holland & Hart LLP, Boulder CO — *Principal Data Scientist*

September 2017 - Present

Lead a team within the firm's Innovation Lab to bring the benefits of Machine Learning and Artificial Intelligence to the legal practice. Plan and scope projects with stakeholders, establish technical roadmap, execute with a team of data scientists. Responsible for ensuring data security and integrity, and maintaining functionality of software products.

SELECT PROJECTS

Legal Continuous Learning Platform — *Automatic ETL, Dynamic Model Training, Validation, and Deployment*

December 2019 - Present. Firm-wide reach.

Developing a suite of technologies to automatically gather training data from employees executing the legal process, causing automation models to be trained, validated and deployed dynamically. Allows rapid scaling of ML tools across the firm with minimum developer effort. Technology deployed in Azure AKS, with data stored and indexed in CosmosDB.

Large Scale Patent Indexing — *Transformers for Semantic Search*

September 2021 - December 2021. Powers revenue-generating product.

Developed tools to gather and process over 30 million patent specifications and make them available for semantic search. NLP search tasks leverage transformer models, with index quantization for lightweight cloud deployment. Technology developed and deployed in Amazon AWS. Executed with the Juris Futura team.

SKILLS

Leadership and Project Management / Execution

Applied Mathematics, Probability and Statistics

Software Deployment with Kubernetes

Large-scale Data Processing

Customer Interaction and Business Development

EDUCATION

Rice University, Houston TX

Ph.D. Electrical Eng, 2011. *"Efficient Resource Allocation in Multiflow Wireless Networks."*

BSEE & BA Mathematical Economic Analysis, 2005, *summa cum laude.*

SOFTWARE

Python, C/C++, Javascript, POSIX shells, REST APIs

PyTorch, Tensorflow, CUDA

Docker, k8s, Helm, ELK, git

REFERENCES

Available upon request.