

DESMOND FUNG

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SUMMARY

I am currently a Data Engineer at State Farm where I specialize in managing Unstructured Data in a hybrid cloud environment. My focus is on optimizing the storage and retrieval of Unstructured Data, using AWS, Python, and Terraform for efficient data pipelines.

EDUCATION

University of Illinois - Urbana-Champaign
Master's, Computer Science

January 2024 - January 2027

University of Wisconsin - Madison
Bachelor's, Computer Science

September 2017 - December 2020

- Coursework: Elementary Matrix and Linear Algebra, Multivariable Calculus, Applied Regression Analysis, Introduction to Probability and Mathematical Statistics, Deep Learning, Machine Learning, Introduction to Artificial Intelligence, Data Visualization, Discrete Mathematics, Introduction to Operating Systems, Introduction to Algorithm, Database Management Systems

University of Wisconsin - Madison
Bachelor's, Statistics

September 2017 - December 2020

CERTIFICATIONS

AWS Certified Cloud Practitioner
HashiCorp Certified: Terraform Associate (002)

PROFESSIONAL EXPERIENCE

State Farm
Data Engineer

Bloomington, IL, USA
December 2023 - Present

- TEST

State Farm
Software Engineer

Bloomington, IL, USA
June 2022 - December 2023

- Managed high-volume production application handling 3.2 million daily document storage and retrieval requests (~3TB data)
- Ensured seamless 24/7/365 enterprise document management service delivery across all State Farm lines of business
- Delivered a high-impact feature in production that impact the daily ingestion of over 6 million pages of documents per day. Wrote comprehensive unit tests to cover various success and failure scenarios
- Developed Python script that streamlines crucial data extraction from ~100k documents for downstream operations every day
- Leveraged infrastructure as code (Terraform) and GitLab CI/CD pipelines to automate DevOps efforts

SKILLS

Skills: AWS, Bash, Data Science, Data Structures & Algorithms, Git, Linux/Unix, R, NumPy, Postman, Puppet, Pytorch, Splunk, SQL, Tableau, Tensorflow, Terraform, Python, Ansible, Datadog