

JASMINE MOORE

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SKILL SUMMARY

- Architecting and deploying distributed systems
- Reliable, tested software engineering using safe languages
- Leading and managing long-term, large-scale projects from greenfield to ship

PUBLICATIONS

- *TextWorld: A Learning Environment for Text-Based Games*. Workshop for Text-Based Games, NeurIPS 2018.

PROFESSIONAL EXPERIENCE

Verses Technologies Inc
Staff Software Developer

Los Angeles, California
May 2023 - Current

- Creation of Genius Core
 - Rust development: Created a high-performance merged vector and document database with in-situ data processing
 - Wrote query planner, query optimizer, buffer pool, and disk storage systems
 - Acts as memory for machine learning; acts as processor for active inference
 - Worked directly with internal and external stakeholders to deliver a tailored product from greenfield to shipping product
 - Several components patented
 - Transformed research papers and research ideas into shipped features
- Led Development of Genius Platform
 - Extension of genius core into full bayesian platform
 - Provided technical leadership on creation and integration of systems from various teams
 - Personally developed deployment strategy, API design, and CSV to model ingestion; delegated user interface, API implementation, storage implementation; oversaw documentation.
- Voting member of the IEEE Spatial Web Working Group

Adeptmind Inc
Senior Infrastructure Developer

Toronto, ON
May 2022 – May 2023

- Infrastructure Development
 - Migrated company to use IaC controls and terraform in order to reduce defect rate and increase observability
 - Created standards to increase knowledge transfer to mitigate impact of high turnover
 - Cost reduction: Moved from \$200k/mo spend to \$80k/mo spend across all products with *higher* service reliability

- Implemented practices and procedures for other infrastructure developers to use, to reduce migration risk and migration defect rate (reduced from monthly outages to one outage in six months)
- Compliance: Advised and implemented controls for SOC2 and ISO 27001:2018 specifications

Microsoft Turing

Software Development Expert II

Montreal, QC

November 2019 – May 2022

- Infrastructure Development
 - Project lead for Turing API, which allows internal customers to access Turing models at high availability
 - Used by Bing Maps, Bing Search, Microsoft ToDo, Powerpoint, and other products
 - >1 billion DAU; frontend QPS >100mm; backend QPS >10k
 - International Standards Compliance adherence
 - Managed Azure DevOps CI tooling for SOC2 and ISO27001-compliant deployments
 - Created additional tooling for developer and researcher onboarding
 - Created and managed chatbot infrastructure for <https://bing.com/covid>, a project with >99.9% uptime worldwide, with millions of active users.
 - Deployed and managed internal flighting and high-availability systems for internal customers
- Software Development
 - Created and managed Turing Uptime, a web-based internal monitoring platform for demo and resource stability
 - Provided infrastructure expertise and deployments to internal projects
 - Example: “Conversation Expander”, a chatbot debug tool which converted from flat logs to a threaded conversation view
 - Example: “Bletchly Demo”, a webapp which demonstrated image generation based on topic

Microsoft Research

Software Development Expert

Montreal, QC

April 2017 – November 2019

- Infrastructure Development
 - Created a scalable Xbox Question Matching Service, whose architecture was deployed by the Xbox team to en-worldwide in December 2020
 - GDPR compliance efforts for two multinational production systems
- Software Development
 - Developed information retrieval components for Bing Chat (during research phase)
 - Used UHRS to deploy a wide-scale data collection effort for Machine Reading Comprehension on PDF documents
 - Helped develop Bing Covid Bot
 - Helped create the training framework for TextWorld (see publications)