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Adam Riggall

EXPERTISE

Languages	Scala, Java, Groovy, Python, R, JavaScript, LaTeX	**Analytics**	Machine Learning, Statistics, A/B Testing
Architecture	Distributed Systems, RESTful APIs	**CI/CD**	Git, Docker, Jenkins, Vela
Agile/XP	Scrum, TDD, Pair Programming	**Observability**	Telegraf, Graphana, Prometheus

EDUCATION

Ph.D **University of Wisconsin-Madison**.
Cognitive Neuroscience
Dissertation: The neural underpinnings of short-term memory for visual motion

BA **Dartmouth College**.
Psychology and Brain Sciences
Significant additional coursework in Computer Science and Engineering

EXPERIENCE

2022– **Lead Data Scientist**, *Target*, Minneapolis, MN.

- Working cross-team to unlock faster delivery of forecast enhancements through improvements to all aspects of DFE's forecast generation and delivery, with a focus on defining clear boundaries, measurement and evaluation of changes, and observability
- Establishing and documenting best-practices and supported tooling, with a focus on improving developer experience and eliminating friction and toil

2020–2022 **Lead AI Engineer**, *Target*, Minneapolis, MN.

- Led development to expand DFE's disaggregation framework to support new functionality for digital-originated demand (Python, PySpark, Oozie, Flask)
- Updated DFE's forecast delivery process (data pipelines and DFE API/bulk tools) to improve maintainability and observability (Scala, Spark, Oozie, HBase, Tomcat)
- Worked closely with internal and partner teams, to help them understand the complexity and nuance involved in generating demand forecasts for various use cases

2018–2020 **Lead Data Engineer**, *Target*, Minneapolis, MN.

- Led end-to-end development of DFE Explorer, an internal visualization and investigation tool for demand forecasts (R/Shiny, Spark, Oozie, KyotoTycoon)
- Fully automated DFE Explorer deployment, using Target Tech standards (TAP, Drone, Measurement Platform), replacing a formerly manual process
- Partnered with both data scientists and business users (inventory analysts) to evolve functionality in DFE Explorer to meet their differing needs

2018

Engineering Manager, *Nike*, Beaverton, OR.

- Provided oversight and support for the team that owned the cloud customization platform, a suite of services that support all aspects of NIKEiD product customization
- Co-founded "The DevOps FastLane", an internal Community of Practice (CoP), to bring together engineers to discuss and remove barriers to development and delivery
- Drove alignment and predictability by clearly communicating priorities, expectations, dependencies, and conflicts to the team, stakeholders, and leadership

2016–18

Lead Software Engineer, *Nike*, Beaverton, OR.

- Led the migration of the public-facing customization services layer from a data center monolith to cloud microservices, all while minimizing downstream changes
- Helped build a data-driven culture by supporting any changes to process or software, as long as they came with a hypothesis to test and a metric to measure
- Worked closely with the team's Product Owner, the Architecture team, and other stakeholders to define, design, and prioritize changes

2015–16

Senior Software Engineer, *Nike*, Beaverton, OR.

- Developed a collection of internal-facing Java microservices for product customization, which allowed product designers to develop novel shoe customization experiences
- Evolved our CI/CD pipeline to support Java/Groovy builds and continuous delivery to production (AWS, Jenkins, Bitbucket, Gradle, Slack)
- Guided team in the successful adoption of test-driven development (TDD)

2014–15

Software Engineer, *Mainz Brady Group (Under contract at Nike)*, Portland, OR.

- Contributed to the development of a new JavaScript library that enabled personalization of socks on Nike.com
- Setup and maintained team's CI pipeline for JavaScript builds (Jenkins, Bitbucket, HipChat)
- Kept multiple data-center environments (dev, test, and stage) in sync with production

2009–14

Graduate Research Assistant, *Postle Lab*, University of Wisconsin-Madison.

- Applied supervised machine-learning approaches to human brain-imaging data (fMRI) to elucidate short-term memory representations
- Built an automated data-analysis pipeline (Python) for neuroimaging data, greatly increasing analysis throughput and eliminating human errors from manual processing

System Administrator, *Postle Lab*, University of Wisconsin-Madison

- Built and maintained the laboratory analysis cluster (Ubuntu), providing distributed processing for large-scale analyses
- Insured the integrity and safety of research data via networked storage with automated tape backups