

James J. Keller II

jameskellermba@gmail.com | (202) 315-8748 | www.linkedin.com/in/jamesk99

Education

Master of Business Administration (MBA) 2025.
Business Administration and Operations Management Southern Illinois University | Carbondale, IL.
Data Science and Analytics – *Specialization* Pontikes Center for Advanced Analytics and AI.

Bachelor of Science (BS) 2019.
Molecular Physiology Southern Illinois University | Carbondale, IL.
Psychology – *Minor* Department of Cellular, Molecular, and Systemic Physiology.

Awards, Certifications, and Memberships

Certified Associate Project Management (CAPM) 2025 – Present.
Scrum Master Certified (SMC) 2022 – Present.
Project Management Institute Member 2023 – Present.
Phi Kappa Phi – SIU Academic Honor Society 2025.
ISRS Research Award 2019.

Experience

Research Fellow – Arx Industries 2025 – Present.
– Built and deployed a local retrieval-augmented generation (RAG) AI pipeline, managing requirements and delivery from data ingestion to end-user interface.
– Managed concurrent development of three web applications across a shared AWS cloud infrastructure, coordinating scope, dependencies, and release sequencing.
– Scoped and implemented a multi-tier SaaS pricing architecture across three live applications, managing phased rollout to isolate risk and preserve existing user entitlements.

Senior Associate – Martin & Bailey 2022 – Present.
– Provided customer service support and facilitated collaborative solutions at stores with support issues.
– Trained new employees and ensured certification requirements were met during the onboarding process.
– Performed interviews, conducted job screenings, and managed administrative duties for employee hiring.

Researcher – Southern Illinois University School of Medicine 2019 – 2021.
– Investigated the tumor microenvironment of ovarian cancer, focusing on the reparative fibrotic mechanism.
– Conducted study focused on ovarian tissue collagen deposition, analyzing tumor development pathways.
– Collaborated with a multidisciplinary oncology team and employed advanced techniques (e.g., flow cytometry, metabolic assays) to evaluate treatment impacts on oncogenic pathways.

Research Analyst – Southern Illinois University School of Medicine 2016 – 2019.
– Performed metabolic profiling of cancer cell lines, examining proliferation rates, and mitochondrial activity.
– Investigated the effects of molecular interventions, particularly SDG's effect on cancer cell metabolism.
– Assessed the long-term impact of molecular pathway targeted therapy interventions on ovarian cancer.

Technical Skills

Project Management – risk isolation, scope management, phased rollout planning, EVM, Agile, Waterfall.
Cloud Infrastructure – AWS Lambda, API Gateway, DynamoDB, Cognito, S3, CloudFront, Amplify.
AI/ML – Retrieval-augmented generation, LLM deployment, LangChain, ChromaDB, pipeline implementation.
Languages and Tools – Python, HTML/CSS, JavaScript, Stripe, Docker, Excel, LM Studio, Microsoft Office.