PHILIP LAUSSERMAIR

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SUMMARY

Solutions Architect & **AI/ML Engineer** with 4+ years at Deloitte Consulting**,** specializing in scalable system design, cloud infrastructure, and distributed computing. Lead enterprise modernization initiatives impacting **25M+ users**, optimizing performance and security at scale. Certified in AWS, Azure, & TOGAF.

WORK EXPERIENCE

Deloitte Consulting – New York, NY

Solutions Architect | Jan 2023 – Present

- **Taxpayer Web Application**: Led cross-functional teams to deliver 5 Commissioner-prioritized features, enabling self-service capabilities for 25M+ taxpayers. Architected FedRAMP-authorized hybrid cloud solutions leveraging **Java, Spring Boot, AWS EKS, and DynamoDB**, maintaining **99.9% uptime** SLA during peak filing seasons.
- **Fraud Detection Modernization**: Designed future-state architecture for a 40-year-old compliance system, securing CIO approval and setting the foundation for Machine Learning pipelines. Conducted legacy analysis using **TOGAF** to align business, data, and technical requirements for 100+ stakeholders.
- **Enterprise Data Access Service**: Built a secure, scalable service supporting **20M+ monthly requests** to access **10B+ taxpayer records**. Designed domain-agnostic REST endpoints for enterprise-wide adoption.
- **Mentorship & Leadership**: Mentored a team of 4 engineers, establishing **code review best practices** and architecture decision records (ADRs), improving developer onboarding time by 30%.

Site Reliability Engineer | Jan 2022 – Jan 2023

- **Scalability**: Maintained platform reliability during **150% YoY traffic growth** via Kubernetes auto-scaling
- **Executive Visibility**: Built **real-time dashboards** (AppDynamics, Splunk) to monitor system health and transaction trends, adopted by C-suite for quarterly performance reviews and strategic decision-making.
- **Proactive Monitoring**: Reduced mean time to detect **(MTTD) by 30%** for P1/P2 tickets through custom Splunk queries and automated alerting for web application anomalies.

Technical Analyst | Jan 2021 – Jan 2022

- **Legislative Compliance**: Translated 2021 Tax Cuts and Jobs Act changes into technical specifications, ensuring uninterrupted processing of 200M+ tax returns.
- **Project Management**: Ensured 100% on-time delivery of 12 major features through cross-functional coordination.

SKILLS

- **Cloud***:* AWS – SageMaker, DynamoDB, S3, IAM, EKS, Lambda, IAM, SES, API Gateway, Amplify, Bedrock GCP – BigQuery, Vertex AI, Cloud Run, Cloud SQL, Gemini, Agent Builder, Cloud Code
- **Languages**: Python (incl. Scikit-learn, NumPy, Pandas, Plotly, Faker), Java, JavaScript, SQL, Spark
- **System Design**: Distributed Systems, Event-Driven Architecture, TOGAF, Microservices, API Design (REST)
- **Technical Demonstration:** Proof-of-Concept Design, Prototype Building, Executive Demos & Buy-in
- **Business Development**: Proposal Development ($200M+ RFPs), Stakeholder Presentations, Technical Writing

CERTIFICATIONS & AWARDS

- **Certifications***:* AWS Solutions Architect Associate, AWS Machine Learning Engineer Associate, AWS AI Practitioner, AWS Cloud Practitioner, Azure Fundamentals, TOGAF 9
- **Awards**: 2x Outstanding Performance Award (Top 1% at Deloitte), 3x Superior Talent Appreciation Award

TECHNICAL PROJECTS

Personal Website (philiplaussermair.com) | AWS Lambda, React, Node.js, DynamoDB, S3, API Gateway, IAM

- **Scalability:** Built and designed a custom serverless personal website, minimizing infrastructure costs to $0.50/per month and utilizing a fully automated CI/CD pipeline for deployments.

GenAI Synthetic Test Data Generator | Python, Streamlit, Faker, NumPy, Amazon Bedrock, YAML, NLP

- **Natural Language Processing**: Applied NLP and LLMs via Amazon Bedrock to interpret OpenAPI specifications and business rules (defined in YAML).
- **Engineered GenAI Use Case**: Built the application using Python and Streamlit to generate realistic, context-aware synthetic test data at scale, slashing a multi-day manual test data creation process to minutes by dynamically generating data based on API schemas and inferred rules.

EDUCATION

University of Florida, College of Engineering

Bachelor of Science, Computer Science | *Cum Laude*

Minor: Sales Engineering | Certificate: Engineering Leadership

Leadership & Extracurriculars

Sigma Nu Fraternity, President: Managed a $260K annual budget and 70-member operations.

Association of Sales Engineers, Founder: Created a 100+ member org to promote sales engineering careers.