

Winston Lin

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SUMMARY

Versatile, solutions-oriented technologist with 16+ years architecting and delivering cloud-based enterprise solutions. Combines technical expertise in AWS infrastructure with hands-on development experience in building scalable applications, APIs, and data pipelines. Proven track record of partnering with business and technical stakeholders as trusted advisor to design architectures and lead implementation teams driving measurable business outcomes (80% cost reduction, 20-100x performance improvements). Expert communicator bridging technical depth with executive-level business strategy across engineering teams to C-suite.

EXPERIENCE

Senior Back-End Engineer, Subsurface & Wells

2022 – Present

Shell

Houston, TX

- Architected productionized seismic simulation solution for geophysicist customers to prospect new reservoirs 100x faster; designed scalable REST API with containerized services (EKS), distributed storage (RDS, S3), and async jobs on HPC cluster
- Modernized forecasting application for reservoir engineering teams to enable faster feature development and increased throughput by 20x, reliability, maintainability, and portability to future clients; improved separation of concerns, modularization, testability, and observability (CloudWatch) to decouple core services from legacy monolithic application
- Optimized drilling event analytics platform for geophysicists and reservoir engineers to reduced compute costs by 80% and improve performance by 50%; rearchitected core data pipeline for incremental refresh; improved reliability through automated testing, monitoring, and alerting
- Developed custom multi-agent solution to enable spec-driven development integrated with Azure DevOps boards and wikis to speed up development by 10x, improve requirements coverage/traceability, increase test coverage by 5x, and reduce change failure rate by 50%

Chief of Staff, Architecture & Data (Contract via MRE)

2021 – 2022

Shell

Houston, TX

- Consulted as technical advisor for enterprise cloud architecture across renewables division; facilitating architectural reviews for US and EU retail energy platforms to provide recommendations on scalability, security, and cost optimization
- Drove enterprise adoption of Atlassian platform (Jira, Confluence) for 3,000+ users across 10 IT delivery towers; partnered with business and technical stakeholders to design implementation strategy that met operational and compliance requirements
- Served as technical liaison between IT leadership, architecture, and engineering teams; authored best practice documentation and facilitated knowledge sharing across development community

Specialist

2021-2022

MRE Consulting

Houston, TX

- Acted as trusted technical advisor for North American retail energy provider; architected and delivered Salesforce chatbot solution generating \$500K/year savings and 20% improvement in customer experience metrics
- Designed enterprise Salesforce territory management solution for \$700M memorabilia company; partnered with business stakeholders to understand requirements and deliver MVP to optimize sales operations
- Contributed to RFPs and technical assessments for field service management implementation, application modernization, and ETRM upgrade

Director, Strategy & Analytics

2010 – 2021

Houston Rockets & Toyota Center

Houston, TX

- Partnered with C-Suite to architect and deliver 3-year digital transformation from POC to production that led to 5x ROI in Year 1 driven by resulting dynamic pricing and performance marketing
- Led special projects for C-Suite, including valuation for sale of franchise for NBA record of \$2.2B, new product offerings, capex decisions for facility improvements, and liquidity forecasts for regional sports network joint venture
- Developed ticket pricing strategy and forecasts resulting in revenue growth of 20%+ over 3 years; created yield tradeoff metric to optimize ticket product mix and pricing that was adopted by NBA league office as best practice for ticket pricing

- Managed \$2M+ technology budget and 4-person analytics team, including data warehouse, BI, CRM, and marketing automation solutions for 100K+ customers; implemented agile development practices to improve delivery speed and quality of analytics solutions
- Previous roles: Senior Business Strategy Manager (2012 – 2014), Business Analyst (2010 – 2012)

SKILLS

- **Solution Design & Implementation:** REST APIs, Microservices, Data Pipelines, CI/CD, Serverless Architecture, BI, CRM, Marketing Automation
- **Cloud Architecture & Infrastructure:** AWS (EC2, EKS, Lambda, S3, RDS, IAM, CloudWatch), Containers (Docker, Kubernetes), Infrastructure as Code (Terraform)
- **AI:** Spec-driven development, GitHub Copilot, Claude Code, LangChain
- **Programming Languages & Frameworks:** Python, Flask, FastAPI, Django, HTML/CSS, Bash, R
- **Data & Analytics:** SQL (PostgreSQL), Pandas, NumPy, Plotly, Dash, Matplotlib, scikit-learn, Jupyter Notebooks
- **DevSecOps:** GitHub Actions, Azure Pipelines, SonarQube, Mend, Azure DevOps, Jira, Confluence
- **Enterprise Platforms:** Salesforce (Sales/Service/Marketing Cloud)

CERTIFICATIONS & TRAINING

- AWS Certified Developer - Associate, Certified Cloud Practitioner
- Databricks Fundamentals
- GitHub Copilot Certification
- Construx Software Developer Certification
- ISC2 Certified in Cybersecurity
- Linux Green Software for Practitioners
- Salesforce Certified Administrator, Sales Cloud Consultant, Service Cloud Consultant, Field Service Specialist
- SAFe 5 Scrum Master, Agilist

EDUCATION

University of California, Berkeley <i>Master of Science in Information & Data Science</i>	Berkeley, CA 2015 – 2017
Massachusetts Institute of Technology <i>Bachelor of Science in Electrical Engineering & Computer Science</i>	Cambridge, MA 2003 – 2008
Massachusetts Institute of Technology <i>Bachelor of Science in Management Science - Finance</i>	Cambridge, MA 2003 – 2008