

Lee Gantt

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Representative Sample of Project Experience

Duke Energy (Charlotte, NC — Nation's Largest Energy Provider)

Serving as Tech Lead across multiple teams of developers, designers, data engineers, and data scientists spanning the Renewables and Electrification domains. Led development of an Angular-based fleet EV conversion calculator hosted on the Duke Energy website, enabling fleet managers to model cost savings and carbon emission reductions from conversion to Battery Electric Vehicles (BEVs). Managed an interactive carbon emissions tool for large account managers used to estimate customer carbon footprints relative to Duke's reduction commitments.

Led a team of data scientists and engineers to perform signal disaggregation of raw residential meter data to detect EV charging events. The original heuristic model was enhanced with a new ML model to improve detection accuracy. Provided hands-on data engineering support using SQL Server, AWS Aurora PostgreSQL, and Athena to clean and organize the underlying datasets.

Led a team building a custom Charge Management System (CMS) for an array of Level 2 (L2) chargers in a Duke employee parking lot. Worked with stakeholders to define monitoring features and employee charging status notifications. Oversaw OCPP protocol customization and charger management. Conducted market research on L2 chargers and made procurement recommendations. Worked with the Cyber team to perform penetration testing and facilitated the Third Party Risk Assessment (TPRA) process. Integrated Duke's Demand Response system using OpenADR to curtail charger power during peak demand periods.

Assisted in troubleshooting a network of L2 and DCFC chargers in Florida, investigating OCPP communication issues and working with the charger vendor, CMS cloud provider, and Duke personnel to restore reliability and recommend architectural improvements. Uncovered security vulnerabilities that required remediation in coordination with the Cyber team and Duke Legal.

Participated in Design Thinking sessions for the Fleet Electrification program, gathering requirements for a depot-level Charge Management System to help operations managers and vehicle drivers optimize overnight EV charging. Also participated in sessions envisioning the future of Duke's power grid, including hybrid generation, Home-to-Grid, Vehicle-to-Grid, distributed intelligence, and demand response — collaborating with Cyber, Telecom, Generation, Metering, and IoT teams.

Assisted in the design and monitoring of a residential EV charging demand response pilot involving three OEMs, which incentivized participants to allow curtailment signals during peak periods. Worked with the IoT team to deliver signals through a third-party provider and assisted in analyzing pilot outcomes and communicating findings to North Carolina regulators.

Managing the development of an Analytics Platform for eTransEnergy (Non-Regulated Duke Energy Company) in AWS utilizing S3, Glacier, Lambda, Lake Formation, Terraform, Aurora Serverless, and Power BI.

EPI-USE AWS Services (AWS Managed Services & Cloud Migration Engagements)

Serving as Project Manager Level 3 leading multiple concurrent AWS cloud engagements. Responsibilities include program governance, resource allocation, executive-level client communications, quarterly business reviews, and SLA compliance monitoring. Lead EPI-USE internal AWS Brown Bag sessions to drive cloud enablement and certification initiatives.

Managed migration of a large document management company from on-premises infrastructure into AWS. The team utilized AWS MGN (Application Migration Service), DMS (Database Migration Service), and a custom data transfer tool to migrate servers, databases, and raw data. Created a Run Book during the Mobilize Phase for client use in staging their proof-of-concept environment, incorporating S3, Snowball, PowerShell scripting, and the AWS CLI.

Managed a Database Modernization engagement in which the team analyzed multiple SQL Server databases to assess feasibility of migrating to AWS Aurora PostgreSQL using Babelfish. Coordinated client-side testing and POC validation, created the modernization proposal deck, and pitched a two-phase product roadmap directly to the client's CEO and CIO.

Managed an Azure to AWS migration engagement, building a greenfield landing zone in AWS and deploying environments across multiple operational units using a managed install tool. Coordinated AD Connector setup to Azure AD with a technical team in Brazil. Guided the team through development of a custom front-end for AWS Workspace Pools and established weekly touchpoints with EPI-USE, client, and AWS account managers.

Managed an AI project using AWS Bedrock to build an email parsing and decisioning system. The system ingested automated log notification emails, applied an LLM to interpret system-generated responses, and stored structured results in a PostgreSQL database.

Insight Global (Sandy Springs, GA — Recruiting Firm, Internal Project)

Assisted in the migration of data and business logic from a legacy MySQL/PHP system and MS SQL system into Hadoop. Converted SQL and PHP logic to Impala SQL and migrated data into Kudu and Parquet tables. Developed and managed Oozie workflows and Sqoop ETL tasks. Used Scala/Spark to implement a fuzzy logic requisition matching system, which won the internal Hack-a-Thon. Assisted in development of an EDW in SQL Server hosted in Azure, wrote stored procedures, assisted in performance tuning, and developed code to parse embedded JSON sourced from Kafka and MongoDB. Maintained reporting infrastructure for inbound/outbound call data based on CISCO CDR data.

US Department of Education / Federal Student Aid (Washington, DC — Third Largest U.S. Government Agency)

Provided project management oversight of the prime contractor (General Dynamics, GDIT) in the development of Federal Student Aid's (FSA's) first mobile application, allowing students to complete the FAFSA on Android and iOS. Oversaw development using the Angular technology stack. Regularly briefed the FSA COO and communicated direction to GDIT through FSA staff. Created the PowerPoint deck for the annual Student Aid conference. Obtained a 5c Secret Security Clearance in connection with this engagement.

Aqua Finance (Financial Services — AWS-Hosted Loan Processing System)

Designed and managed implementation of an ASP.NET loan processing application hosted in AWS using SQL Server Managed Instances (RDS) and Windows EC2 Instances. Performed all DevOps work and hosted the application in AWS for 12+ years. Established redundancy and backup retention to S3.

GM OnStar (Merkle / Comet Global Consulting)

Conducted on-site client interviews to identify BI needs for churn reduction across multiple channels. Documented data availability in the EDW and Merkle's CMS. Extracted and summarized data from Merkle's SQL Server system and delivered multi-dimensional analysis insights. Provided on-site training for OnStar staff on best practices for BI reporting against PEGA Real-Time Decisioning Interaction History.

Verizon Wireless (Merkle / Comet Global Consulting)

Developed BI reports for the marketing division pulling from a Teradata database and applying knowledge of Pega Real-Time Decisioning Interaction History. Provided champion-challenger analysis using ROI methodology. Developed agent performance analysis across multiple channels. Created scripts to assign accounts and lines to market trials and produced analysis and reporting in Excel, PowerPoint, and Tableau for senior management.

Frontier Communications (Merkle / Comet Global Consulting)

Analyzed entire database of FIOS customers including churn data and retention agent interactions. Developed offer optimization model to project best offers for increasing customer lifetime value and reducing churn based on segmentation analysis.

DirecTV (Merkle / Comet Global Consulting)

Took over development of an existing QlikView reporting system. Source data maintained in Teradata contained Pega Real-Time Decisioning interaction history for the retention channel. Successfully transitioned system enhancements to DirecTV staff.

Cox Communications (Alpharetta, GA — Cable TV, Internet & Telecom Provider)

Starting in 2010, provided reporting for a PEGA Real-Time Decisioning system used in the sales channel, performing reporting against Exadata (Oracle 11g) databases. Developed and maintained BI reporting for the business. When the retention channel was added in 2013, extended reporting to that domain.

From 2014, supported the Multi Dwelling Unit (MDU) sales channel — writing and maintaining reports for Direct Sales Agents and Account Managers, building processes around Oracle and Excel, and creating summary tables for OBIEE and Tableau.

Student Loan Finance Corporation

Designed, managed, and developed business logic for a student loan refinance acquisition and management system. Designed architecture to interface with two credit bureaus, the Student Clearinghouse, Acxiom, IDology, DocuSign, and various other vendors to deliver a seamless application experience. System included underwriting logic and back-office automation for promissory notes, loan disclosure documents, and contracts. Implemented in ASP.NET using SQL Server Managed Instances and EC2 instances on AWS, with full DevOps and hosting responsibility.

Universal Savings Bank

Designed and managed a credit card acquisition system with real-time underwriting, customer service, dynamic reporting, fraud detection, and real-time interfaces to two credit reporting agencies. Interfaced regularly with directors and C-level executives to implement enhancements, maintain operational integrity, and satisfy OTS audit requirements. Responsible for database design, stored procedures, views, triggers, and performance tuning under growing transaction volume.

GrowthPoint Investments

Designed and implemented an end-of-day quoting, trade tracking, and portfolio management system in SQL Server using EC2 and AWS RDS. The database housed bid/ask and volume data for futures and options on multiple commodities, maintained volatility metrics, and was used to recommend and track commodity trades. System conformed to CFTC and National Futures Association record-keeping requirements. Stored procedures were used to back-test trading strategies against large historical quote datasets.

Verifique (Buenos Aires, Argentina)

Designed and implemented Argentina's first commercial online database for skip-trace and ID verification. The system allowed retrieval by name, address, document number, or any combination without requiring exact spelling, using fuzzy logic matching via external DLL integration. The database contained hundreds of millions of rows of confidential information and was hosted at a secure facility in Atlanta.

AIG Insurance

Designed and managed development of the mission-critical policy management system for AIG's aircraft insurance division. Worked directly with division heads to continuously enhance the system to maintain market competitiveness.

Office of School Readiness (OSR) (State of Georgia — Pre-K Program)

Staffed and managed programming teams to develop and maintain multiple mission-critical information systems including registration and school lunch program applications. Worked with agency management to ensure systems remained current with dynamic legislative rules. Managed outsourced programming tasks in India.