N. JUDE NWOSU

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AWS CLOUD ENGINEER
Solutions Architect | Big Data | Developer Associate

Versatile, tech savvy professional with the ability to deliver valuable insights via advanced data-driven methods. Leverages deep knowledge of Amazon's AWS Cloud Engineering – Big Data, Solutions Architect and Developer – to gather, analyze, design, deploy, and operate highly available, scalable, and fault tolerant AWS Cloud solutions for organizations' cloud systems and networks; thereby enabling the seamless execution of business-critical initiatives and projects.

PROFICIENCIES

- Amazon AWS CICD/Pipeline
- Amazon AWS CloudFormation
- Amazon AWS Elastic Beanstalk
- DynamoDB and AWS RDS
- AWS Redshift Data Warehouse
- Apache Spark Big Data Analytics

- Elastic MapReduce Data Processing
- Quicksight/Chart.js/D3.js/Highcharts
- Amazon AWS SageMaker
- Amazon AWS Machine Learning
- Linux CentOS 7 & Unix Oper. Sys.
- Apache Kafka Big Data Streaming

- Python Using Boto 3 & Jupyter Note
- Structured Query Language (SQL)
- YAML Data Serialization Language
- JavaScript Object Notation (JSON)
- Node.JS Programming Language
- AWS Elastic Kubernetes Service

PROFESSIONAL EXPERIENCE

LegalCentral Technologies (KRA Legal Services LLC), Torrance, California
AWS Cloud Technology Contractor   October 2018 – May 2019

- Assisting in the architecting and deployment of a legal-centered web application using AWS resources, particularly Elastic Beanstalk. Managed Indian-based application developers to convert original software system from Microsoft .Net to Java and using Amazon Simple Queuing Service to decouple the separate applications running within the system. Each application was then set up to interact with each other using a REST API over HTTPs.

- Employed a Micro-Service architecture to ensure a leaner development lifecycle for each of the application's running services. This architectural model was chosen to ensure that each of the application's services could scale independently and have a separate code repository.

- Upon completion, the tech development team used single instance Beanstalk architectural model to deploy a Dev version of the application within a controlled/private environment.

- Upgraded to Elastic Load Balance (Application) and Autoscaling Beanstalk architectural model that incorporates other AWS resources as Relational Database Services (MySQL) and Elastic Cloud Compute.

- Architected a Continuous Integration and Continuous Delivery (CI/CD) Pipeline on AWS that is activated for every commit to project's Source Control Manager (SCM) to automate customized CloudFormation template aimed at expediting the software delivery process.

E-RocoNet Inc., Los Angeles, California
Co-Founder & Software Product Manager   October 2014 – February 2018

- Managed the architecture and production of an unreleased cloud–based (AWS) chronic illness web and mobile application management system built to enable end–to–end, real-time, and encrypted communication between physicians and their patients.

- Product was designed to support a vast range of use cases such as vital signs monitoring while offering redundant layers of authentication, encryption and access control using Amazon's Identity and Access Management (IAM), and Cognito for individuals intending on using the mobile version of the product in accordance with HIPAA.

- Managed developers in the architecting of RocoBooks, a cloud-based software-as-a-service accounting software for small businesses, accountants and bookkeepers. Process involved application configurations, code compilation, packaging, building, automating, managing and releasing from one environment to other environments, and eventual deployment to servers.

- Implementation of the e-commerce gateway to the application using the PayPal API – working on using Web API to pull user data records in form of JSON or XML from MySQL database to MSSQL once the user completes a session of transaction successfully.

Novantus Corp, Woodland Hills, California
Information Technology/Product Support   July 2010 – September 2014

Product support specialist for clients of Consulting Company. Clients include Key Bank Cleveland, Bank Services Corp, Standard Chartered Bank London, GistMe Communication, MTECH Communication, and Porteous Fastener Company.

- Software Architecture, design, Security and Implementations. Consultancy on E-Business & Sales Development for Enterprises and Advanced Online Digital Marketing.

- Continuous technical support in the full automation of a card issuing PCI DSS certified platform. Application connected to an AWS EC2 Staging Server (from AMI) while reading complex VDE spread sheets and transferring data via Secure FTP – for **Porteous Fastener Company.**

Hospital Association of Southern California, Los Angeles, California
Resident, Health Administrator   January 2008 – June 2010
Southern California based not-for-profit regional trade association that serves the political, economic, informational and educational needs of hospitals in the region, and improving accessibility to health services.

- Used SPSS and Windows QM statistical tools to perform Linear Regression on health data to obtain the ratio of inpatient/outpatient federal government health funds allocation within the Southern California region.

- Assisted in the researching of improvement opportunities regarding hospital assessment methodologies, thereby promoting continuous improvement amongst healthcare institutions within the Southern California region.

Boeing Company, **Long beach, California**
Information Systems Analyst   January 2002 – December 2005
World-renowned aircraft manufacturing and maintenance company located in Long Beach area of Southern California region.

- Co-development and maintenance of database storage disaster–recovery plan for Systems Integrity department's Microsoft Access Database.

- Assisted with test procedures and documentation of test results to ensure software systems requirements were met. Also ensured documentation of deployed processes and tools; and collection of software product performance metrics.

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PERSONAL DEVELOPMENT

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Data Science, 10/2017 to 02/2018
General Assembly – Data Science Course with Industry-Designed Curriculum
- Developed a Python-based Time Series–based model to forecast the U.S. Healthcare Expenditure over the next twenty-five years using publicly available, mined and cleaned supervised historical data. Process employed the utilization of the Autoregressive Integrated Moving Average (ARIMA) model to eliminate any evidence of non-stationarity from the data.

- Used same U.S. Healthcare Expenditure data to develop an Amazon Machine Learning (AML) model to also forecast healthcare expenditure in the country. This time, log data was initially stored in an EC2 instance, which was then loaded into an existing Amazon Simple Storage System (S3). From the S3, the data was fed into the AML set up via AWS pipeline and used as the training data; label selected, and predictions made. All these processes were done via the AWS console.

- Used Python's NumPy and Pandas libraries to perform Exploratory Data Analysis on public companies' Financial Statements derived from Quandl and edgar.gov. Analysis also included calculation of all relevant ratios. Used Facebook Prophet and ARIMA Time Series Model to forecast future earnings of the companies.

Amazon Web Services (AWS) Solutions Architect | Developer Associate | Big Data Specialty
Mastering of the AWS Solutions Architect, Developer Associate, and Big Data Specialty roles using the AWS Console, Command Line Interface (CLI), and Boto 3 – a Python-based AWS Software Development Kit (SDK).

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EDUCATION

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M.Sc. Healthcare Administration, University of Southern California – Los Angeles, CA   May 2009
B.Sc. Computer Science & Computer Information, University of Southern California – LA, CA   May 2003

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CERTIFICATIONS

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Data Science with Python, General Assembly – Santa Monica, CA   January, 2018
Amazon Cloud Engineering Certifications (IP):

- **AWS Certified Solutions Architect Associate (Amazon CSAA)**
- **AWS Certified Big Data Specialty**
- **AWS Certified Developer Associate**