

# GNANESHWAR AYANALA

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## SUMMARY

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- AWS Certificate for Generative AI on AWS Essentials (Business)
- AWS Certificate for Fundamentals of Machine Learning and Artificial Intelligence
- **Java** developer with 10+ years of related professional experience, including **Full Stack** development
- 6 years of Amazon Web Services (**AWS**) experience
- Hands-on experience with migrating/enhancing legacy applications to harness Cloud solutions

## TECHNICAL SKILLS

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### Programming Languages:

- Java, Python, Node.js, JavaScript, TypeScript, PHP

### CSS Frameworks:

- Bootstrap, Bourbon

### Build Tools:

- Apache Maven, SBT

### Database Technologies:

- Amazon DynamoDB, Oracle, MySQL, ElasticSearch, MongoDB

### Frameworks:

- Jersey Web Services (JAX-RS), Play, Spring Boot, Django, Sails.js, Laravel

### Web Development:

- AJAX, Angular 6, HTML5, jQuery, JSP, REST, Servlet, SOAP Web Services

### Cloud & DevOps:

- AWS (CDK, EC2, EKS, Fargate, ECS, Kinesis, Lambda, S3, Glue, SQS, X-Ray), Git, Jenkins, Docker

### Testing & Quality Assurance:

- JUnit 5, Mockito

### Miscellaneous:

- REST API Design, Continuous Integration/Deployment (CI/CD), Microservices Architecture

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## PROFESSIONAL EXPERIENCE

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### Senior Java Development Analyst at Vernus Technologies, Grand Rapids, MI

Jan. 2025 – Present

- Designed and implemented an **AWS compliance roadmap** to support the organization's eligibility for AWS Partner Network (APN) certification.
- Led the **planning and execution** of multiple strategic projects, ensuring alignment with cloud infrastructure goals and business objectives.
- Conducted a **technical and feasibility assessment of UbiCloud**, evaluating its potential as an alternative to AWS for core infrastructure needs.
- Managed **AWS cloud solutions** using allocated service credits, and maintained **Salesforce instances**, ensuring reliable integration and continuous availability.
- Earned Generative AI on AWS Essentials and Fundamentals of Machine Learning and Artificial Intelligence certificates

### Web Services Developer at Corewell Health, Grand Rapids, MI (remote & contract)

June 2021 – Jan 2025

*Management Methodology: Scaled Agile Framework (SAFe)*

- Designed and developed an **AWS solution** to replace high-latency batch processing jobs with near-real-time processing, significantly improving workflow efficiency.
- Created infrastructure with API Gateway and Cognito for role-based access and reverse proxy functionality
- Used Lambdas tied to AWS SQS for asynchronous messaging workflow
- Created and scheduled periodic jobs in AWS Glue to connect to SQL Server to write to S3
- Created Lambdas to get triggered from S3 when file is written and it is in turn sent to Salesforce
- Spearheaded a project from inception, setting up production and non-production environments, building **CI/CD pipelines**, and implementing Infrastructure as Code using **AWS CDK**
- Upgraded and deployed web services to **Kubernetes (Amazon EKS)**, enhancing scalability and reliability
- Developed and maintained **SOAP and REST microservices** using **Java Spring Boot**, ensuring high-quality and efficient code
- Deployed web services on **RedHat OpenShift** container platform using **Rundeck**, streamlining deployment
- Optimized performance using **Dynatrace**, resolving latency issues.
- Contributed to peer code reviews, COP sessions, and developed best practices for development teams, fostering a culture of excellence.
- Evaluated technological changes, assessing implications and opportunities for growth.
- Served as a production consultant providing expert guidance to identify and resolve issues.

### Senior Java Developer Analyst at Amway, Ada, MI (hybrid & contract)

Feb. 2019 – June 2021

*Management Methodology: Agile Scrum*

- Migrated on-premise Monolithic application into **AWS** cloud utilizing **Microservices** architecture
- Worked on developing an AWS component that supplements the operation of streaming data from **AWS Kinesis** service; came up with a fault tolerant way to store data into the existing Monolithic application
- Implemented novel automatic deployment channel and service creation pipeline using **AWS CDK**
- Worked with DBA to streamline **Oracle query optimization process** and DB action items
- Developed screens and dashboards to visualize incentives and awards in various markets (countries)
- Worked on complex backend processes involving data preparation, calculation of incentives and data validation before the launch of new awards and periodic (month/year) end processes
- Worked in Agile Scrum environment including grooming, planning, and retro sessions for team planning
- Developed **Spring Boot microservices** and deployed to **AWS EC2** and **AWS Lambda**
- Set up **Alarms, Triggers and Automated logging** operations on all the AWS components to automate error correction, anomaly detection and incident notification

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**Associate Full Stack Software Engineer at Clara Analytics**, Santa Clara, CA (Full time) Feb. 2018 – Jan. 2019  
*An early-stage Silicon Valley startup focusing on workers' comp. insurance using AI to reduce cost of claims.*

- Worked on building and enhancing scalable multi-tenant '**InsurTech**' applications to connect injured workers to their doctors
- Developed web applications using **Angular** and **Play** with responsive UI design, including material design that leverages existing micro services for authentication and logging
- Enhanced the existing applications and came up with ways to improve scalability and speed of development by leveraging **NoSQL** database solutions

**Web Application Developer at IS&T Attic**, Omaha, NE (Part time) April 2016 – June 2017  
*Management Methodology: Agile Scrum*

- Developed and maintain **Sailsjs** (NodeJS framework) MVC application that serves as internal file management and secure sharing platform
- Developed Hybrid Web application and backend web services using **PHP** for Nebraska Health Network
- Designed a **Progressive Web App** (PWA) for ease of accessibility with a native app like user experience

**Applications Engineer at Oracle**, Hyderabad, India (Full time) May 2015 – Dec. 2015

- Developed Oracle's next-gen cloud applications for the accounts receivable module of **Fusion Financials**
- Enhanced legacy applications gearing towards multi-tenant functionalities
- Resolved issues in the existing payables application

**Big Data Developer at Veda Semantics**, Bengaluru, India (Full time) June 2013 – April 2015  
*Startup with Natural Language Processing capabilities for text analytics and social media analytics solutions.*

- Worked on **NLP** engine workflow and usage of **machine learning** algorithms using **Apache Mahout**
- Developed a web application to visualize various **text analytics** and **sentiment analysis** findings
- Implemented language translation capabilities using **Bing translation** and **Asia online services**
- Developed backend web services using the **Jersey (JAX-RS)** framework harnessing big data tools
- Designed and implemented **Git-BPF** workflows, dashboards, streaming APIs, and CI Jenkin jobs

## EDUCATION

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**Master of Science in Management Information Systems (MIS)**, University of Nebraska Omaha December 2017  
**Capstone Project:** Together A Greater Good (website dev. to track/enable corporate giving) GPA: 3.6/4.0  
**Relevant Coursework:** Advanced Systems Analysis and Design | Data Communications | Data Management: Enterprise Architecture and Systems Integration | Management of Software Development

**Master of Science in Information Technology (IT)**, IIIT – Hyderabad, India May 2013  
**Internship:** Built scalable SAAS application for mobile job applicants GPA: 3.4/4.0  
**Relevant Coursework:** Basics of Machine Learning | Computer Networks Foundations | Data Mining | Data Structures | Mini Search Engine | Natural Language Interfacing for Database | Real World Algorithms

**Bachelor of Science in Computer Science**, JNT University – Hyderabad, India Apr 2011  
**Capstone Project:** Enhanced Delegation Based Authentication Protocol for PCS GPA: 3.5/4.0

## COMMUNITY ENGAGEMENT

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Mentoring Java developers and new graduates online (2018 - Present)

Grand Rapids Cricket League (2022)

CrossFit Enthusiast and Hometown Heroes 2022 (CrossFit Open) volunteer, 2023 participant at Friction, Grand Rapids, MI