

# Akesh Babu Anumalasetty

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## Professional Summary

Enthusiastic and skilled professional with diverse experience seeks pivot into software development, offering a solid foundation in delivering impactful solutions and maintaining consistent performance. Excels in various domains, eager to leverage expertise in driving innovation and contributing to dynamic software projects.

## EDUCATION

### University of Utah, David Eccles School of Business

Salt Lake City, UT

*Master of Science in Information Systems*

*August 2023-2024*

- Relevant Courses: Java and Data Structures, Web Based Applications, Database Theory/ Design
- Awards & Honors: IS Graduate Ambassador, Lucid Programming Competition 2023, Domo Layton Hackathon 2023

## EXPERIENCE

### Monument Solar, LLC (Crashpad)

Salt Lake City, UT

Full Stack Software Engineer (Java)

*January 2024 – Present*

- I led a team to enhance a web application that connects travelers with landowners for RV parking, utilizing **Agile** methodologies for Project Management and **Git** for version control to ensure code integrity and team collaboration.
- Spearheaded full-stack development with React, TypeScript and **Java Spring Boot**, Amazon **S3**, and EC2, integrating Google Maps and **OAuth2** authentication APIs to enhance user experience and security. Designed and managed SQL databases for high scalability and complex querying using **JPA**.
- Developed advanced features such as **REST APIs**, user authentication systems, dynamic listing views with pagination, and a user-friendly interface, significantly improving the application's functionality and user engagement.
- Coordinated extensive testing phases using **Postman** and implemented a CI/CD pipeline for efficient deployment, ensuring the application met all functional and security standards before launch.

### University Of Utah

Salt Lake City, UT

Graduate Assistant / IS Graduate Ambassador / *Teaching Assistant*

*January 2024 – August 2024*

- Facilitated student learning in **PHP**, JavaScript, HTML5, CSS, and Bootstrap, guided students in understanding and implementing object-oriented programming concepts and database management skills.
- Improved administrative efficiency by 65% through the automation of waiver requests using **Microsoft Power Automate**, while providing essential support to students navigating academic and program-related queries.
- Played a key role as a **Graduate Ambassador**, promoting the master's program in Information Systems through tabling events and interactions with prospective students, fostering a supportive academic environment.

### Amazon

Hyderabad, India

*Software Developer Engineer*

*July 2019 – July 2023*

*Risk Investigation Team*

- Architected and deployed a comprehensive risk investigation platform using **Java Spring Boot** with **Hibernate** for the backend and **Angular** for the frontend hosted on AWS. Streamlined fraud detection, resulting in a 40% improvement in speed and offering investigators a user-friendly interface to manage tasks and suspicious transactions.
- Developed **REST APIs** and optimized client data requests with GraphQL, hosted on **AWS API Gateway** to enhance security and scalability, improving load times by 25% and streamlining data flow between services.
- Managed MongoDB, **MySQL** and integrated **Elasticsearch**, hosted on AWS, optimizing query performance and search capabilities, achieving a 25% faster data retrieval rate and a 50% improvement in response times.
- Integrated **Apache Kafka** for seamless task generation and distribution across investigators, ensuring efficient task assignment and completion. Leveraged **EC2**, **Elastic Load Balancing**, and **ECS** to maintain high availability and scalability, to manage high traffic and concurrent tasks effectively.
- Managed **Docker** containers for microservices deployment, ensuring consistent environments across development, testing, and production. Utilized **Kubernetes** for orchestrating and scaling these containers to manage high-traffic scenarios.
- Directed **Jenkins**-based CI/CD pipelines on AWS, automating deployment processes and reducing errors by 75%, increasing deployment frequency by three times, and leveraging AWS CodeBuild and CodeDeploy for efficient environment management.
- Applied Agile **SDLC** methodologies utilizing AWS CloudFormation, enhancing project tracking and team productivity, facilitating rapid environment setup and iterative development for continuous improvement.

## TECHNICAL SKILLS

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**Programming:** Java, PHP, JavaScript, C

**Databases & Data Processing:** MySQL, NoSQL, MongoDB, Redis, Apache Kafka, GraphQL, LabVIEW, Domo, JPA, Hibernate, ETL

**Web Development:** HTML, CSS, Bootstrap, JavaScript, React, Angular, Restful API Design and Integration, Microservices

**Tools & Platforms:** Spring Boot, PeopleSoft, GitHub, Visual Studio, Babel, Webpack, Azure SQL Database, Docker, Kubernetes, Linux Shell, Scripting, Eclipse IDE, Jenkins, Jira, Postman

**Core Competencies:** Data Structures & Algorithms, Object-Oriented Programming, System Design, Problem-Solving

**Cloud Infrastructure:** AWS, EC2, S3, Elastic Load Balancing, CodeBuild, CodeDeploy, ECS

**Testing:** Selenium, Cypress, Postman, JIRA, GitHub Actions, Playwright, Unit Testing, Component Testing, Integration Testing

## PROJECTS

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### Domo Layton Hackathon 2023

- Awarded Second position in the 2023 Domo-Layton Hackathon, demonstrating excellence in developing HR Analytics for Layton Construction. Generated insightful dashboards using the Domo platform for a given dataset, showcasing innovation and competitiveness in a high-stakes environment, resulting in a 50% increase in decision making.

*Skills: Domo, Dashboard Creation, KPIs, Time Management, HR Analytics, ETL*

### SubUrban Outfitters (Ecommerce)

- Led the creation of "Suburban Outfitters" e-commerce platform, improving user engagement with enhanced UI/UX through HTML, CSS, JavaScript, and Bootstrap, and integrated PHP for real-time tracking and dynamic interfaces.

*Skills: HTML, CSS, JavaScript, Bootstrap, PHP, E-commerce Development, UI/UX Design, Customer Engagement*

### Transit Tracker: UTA Transit Application

- Architected a comprehensive Azure SQL Database model for the UTA Transit mobile application, facilitating real-time insights into user engagement with precise tracking of bus and Trax information.

*Skills: Azure SQL Database, Database Schema, ERD, Database design*

### Generative AI (ChatGPT) Hackathon

- Excelled in a business case competition by transforming unstructured customer review data into structured insights to enhance a clinic's operations.
- Leveraged ChatGPT and AI-powered analysis to deliver impactful recommendations, demonstrating strong data analysis and critical thinking skills.

*Skills: Data analysis, Python, ChatGPT, LLM, OpenAI*

### Time Series Modeling: Traditional vs Deep Learning

- Developed and compared traditional statistical models (Monte Carlo) with advanced deep learning models (Chronos) for predicting stock returns. Analyzed model performance across multiple metrics and demonstrated the superiority of deep learning techniques in terms of predictive accuracy and error reduction.

*Skills: Python, Machine Learning, Deep Learning (Chronos Model), Monte Carlo Simulation, Time Series Modeling, Financial Data, Google Colab*

### Minesweeper Game Development

- Spearheaded the development of a dynamic Minesweeper game leveraging Java programming language and advanced data structures, resulting in a captivating and immersive gaming experience.

*Skills: Java, Data Structures & Algorithms, Game Development, React*

### Click Quest Game using Java

- Developed an interactive point-and-click adventure game in Java, utilizing JFrame for the graphical user interface.
- Implemented game logic and user interactions, ensuring a dynamic and engaging gameplay experience. Applied critical thinking skills to design and integrate complex game mechanics, enhancing user engagement and playability.

*Skills: Java, JFrame and Swing Utilities, Event Handling, Custom class Design, User Interface Development*

### Linux MiniShell

- Developed a lightweight command-line interface (MiniShell) in C, simulating basic Unix shell functionalities such as executing commands and handling piping, with custom features for process creation and management ensuring effective command execution.

*Skills: C Programming, Unix/Linux System Calls, Process Management, Shell Scripting*