

# Umesh Chandra K

([AWS Certified Cloud Practitioner](#))

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## Education

### University of Texas at Arlington, Arlington, Texas, USA

Aug 2022 – May 2024

*Master's in Computer Science*

**GPA:3.8/4**

**Coursework:** Artificial Intelligence, Neural Networks, Machine learning, Data Mining, Design and Analysis of Algorithms, Data Analysis and Modelling Techniques, Web Data Management, Software Engineering, Cloud Computing, Numerical methods

### CVR College of Engineering (JNTUH), Hyderabad, India

Aug 2016 – Aug 2020

*Bachelor of Technology in Computer Science and Engineering*

**GPA:3.8/4**

## Technical Skill Set

|                                |   |
|--------------------------------|---|
| <b>Programming Languages:</b>  | Java, Python, C++, Golang   |
| <b>Database &amp; Servers:</b> | MySQL, MongoDB, PostgreSQL, Cassandra, Oracle                               |
| <b>Software Framework:</b>     | Spring Boot, JUnit, Django, Mockito, .Net, ADO.Net                          |
| <b>Web Development:</b>        | JavaScript, Typescript, REST API, PHP, ReactJS, NodeJS, Angular, HTML5, CSS |
| <b>Containers/Cloud:</b>       | AWS, Azure, Docker, Kubernetes  |
| <b>Tools:</b>                  | IntelliJ, VS Code, Jenkins, Git, Gitlab, Bitbucket                          |

## Work Experience

### Web Developer, University of Texas at Arlington, USA

Feb 2023 - June 2023

- Spearheaded the development of over 20 front-end and backend components for the college website using **.NET, C#, JavaScript, HTML5**, and **CSS3**.
- Crafted captivating user interfaces and designed forms, resulting in a remarkable 30% increase in user engagement.
- Documented and resolved more than 50 customizations and technical issues across the site, ensuring seamless user experience.

### Software Engineer, Hopnet Communications LLP, India

March 2021 – Apr 2022

- Engineered end-to-end search features for both mobile and web applications using **React Native, ReactJS**, & **TypeScript**, elevating user engagement by 30% and search accuracy by 20%.
- Implemented comprehensive test cases using **Jest** for both platforms, achieving 90% code coverage and reducing the number of reported bugs by 50% post-release.
- Orchestrated deployment and maintenance of cloud infrastructure using **AWS Cloud Development Kit**, ensuring project scalability and reliability.
- Developed and maintained **GraphQL APIs** using **Apollo Server**, providing efficient and flexible data retrieval for our Frontend Management Console Application.
- Created monitoring and logging dashboards using **AWS CloudWatch** to identify and troubleshoot potential issues in production.

### Software Engineer, Citratek, India

May 2019 – March 2021

- Collaborated with Agile teams to develop and maintain **microservices** based applications using **Spring Boot**, ensuring on- time project deliveries and implementing Continuous Integration/Continuous Deployment (CI/CD) pipelines with **Jenkins** for streamlined development processes..
- Optimized **React** to improve UI/UX, resulting in a 20% reduction in page load times and a 15% increase in mobile user engagement.
- Utilized expertise in the **Spring Framework** to enhance system efficiency, achieving 25% faster API response times and reducing security vulnerabilities by 30% using **Spring Security**.
- Managed **Cassandra** databases proficiently to increase data precision and query performance by 10%.
- Deployed applications on **AWS (EC2, S3)** to achieve a 15% boost in system uptime and reliability, while reducing security incidents by 25% through AWS security features.
- Designed **RESTful APIs** to facilitate efficient data transfer between server-side and client-side, enhancing overall system performance.

## Academic Projects

### UTA MS CS Website (HTML, CSS, React, PHP, Node.js, Laravel, MongoDB)

- Constructed a dynamic web application during my Web Development Course, leveraging HTML/CSS/JavaScript alongside React.js, Node.js, PHP, Laravel, and MongoDB.
- Deployed the application on UTA Cloud for seamless accessibility.

### Cloud Native Monitoring Application (Python, Kubernetes, AWS)

- Created a monitoring web application using Python with **Flask** and **psutil**.
- Containerized the application with **Docker** and locally built the image.
- Established an **AWS Elastic Container Registry (ECR)** using **Python's Boto3 module** and pushed the image.
- Deployed the application on an **AWS Elastic Kubernetes Service (EKS)** cluster with nodes.

### Retail Web Application (PHP, MySQL, Azure)

- Utilized PHP and MySQL as the database management system to develop a retail web application.
- Deployed the application on the Azure cloud platform following DevOps methodology and agile principles.
- Automated the application build, test, and deployment processes by implementing **Continuous Integration** and **Continuous Deployment (CI/CD)** using Azure DevOps.
- Configured an Azure App service to host the web application and integrated the necessary dependencies using **NPM**.

## Certifications

- AWS Certified Cloud Practitioner
- Full Stack Developer – Java, Restful WS, JSP, Spring by Mosh

## Extracurricular

Active member for the Google Developer Student Club at The University of Texas at Arlington participating in various tech-focused projects and events.