

KETHAN SAI YARAM

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EDUCATION

Master of Science – Computer Science. GPA: 3.42

Northern Illinois University, DeKalb, IL: 2018 - 2019

- Relevant Coursework: Software Engineering, Database Concepts, Big Data Analytics, Information Storage & Retrieval, Object-Oriented Design Programming.

Bachelor of Science – Computer Science

Gandhi Institute of Technology and Management, Visakhapatnam, AP: 2013 - 2017

- Relevant Coursework: Data Structures, Programming with C, OOPS with C++, Programming with Java, Database Management System, Cloud Computing, Data Analytics.

TECHNICAL PROFICIENCY

TECHNICAL SKILLS	Java, SQL, C++, Python, JavaScript, Angular, React JS, HTML, CSS, Linux, Unix, Apache Tomcat, MySQL, PostgreSQL, JDBC, Git, MongoDB, jQuery, NodeJS.
TOOLS & FRAMEWORK	AWS Ecosystem, Spring MVC, REST, SOAP, Postman.
PACKAGES AND IDE'S	IntelliJ IDEA, Eclipse, Visual Studio, SQL Server Management, Spring Tools.

PROFESSIONAL EXPERIENCE

Junior Java Developer | IMCS Group | Texas, USA | April 2020 – Present

- Design and Develop projects using **Object-Oriented** and **POJO** principles in **Java**.
- Used Angular to build custom forms that connect to the backend.
- Client pages are built using **HTML, CSS, and JavaScript** with the usage of **Angular** Framework.
- Extensively used **Core Java API, Spring API** in developing the business logic
- Designed and Developed **Representational state transfer (REST)** based services and **Simple Object Access Protocol (SOAP)** based services as part of the requirement.
- Used **XML** and **JSON** for transferring/retrieving data between different Applications.
- Ability to integrate **Spring security** and its custom features for effective solutions.
- Responsible for the analysis and design of **MongoDB**.
- Trained in different methodologies of software development.
- Extensively used the J2EE design patterns like **Session Façade, Business Object (BO), Service Locator, Data Transfer Object (DTO), and Data Access Object (DAO), Singleton, Factory**.
- Configured local **Maven** repositories and multi-component projects and scheduled projects in **GIT/Jenkins** for continuous integration

Teaching Assistant | GITAM University | Visakhapatnam, AP | January 2016 – March 2017

- Managed and oversaw the performance of school machinery and equipment, monitoring and analyzing performance to improve efficiency and safety; implemented improvements which increased efficiency by 15%.
- Assisted students with technological questions and handled material related to course work. Maintain and update the course work system by reporting and assisting in changes.

Software Engineer Intern | Hewlett Packard | Hyderabad, TG | April 2016 – June 2016

- Developed an application which automatically maintained and updated records in the company database using **Java** and **MYSQL**; worked as part of a three-member team and presented all aspects needed for the development.
- Developed software solutions and applications that were 20% more efficient than existing systems and applications.
- Participated in a month-long group training session with up to 15-20 people where we learned, discussed, and developed using **core java** principles and its **API**.

PROJECTS

Journal Recommendation System Using Weighted TAU (Data Analysis) | NIU | 2019

- Developed a dynamic algorithm for better analysis increasing the efficiency by 15%; calculated hypothesis with **Tau measure and LDA model**.
- Executed a unique recommendation system by isolating required data from the **Altmetric** dataset.
- Improved implementation using **AWS** (Amazon web services) – **SageMaker**, machine learning service to deploy them on to a machine ready environment.

Predicting Future Citations in Patents (Data Analysis) | NIU | 2018

- Utilized **machine learning** to develop a model that predicted the citation of research papers in patents; the model boasted 90% accuracy in its predictions.
- Carried out classification using Random Forest classifier on the **Altmetrics** Website dataset.
- Improvise using a tensor flow system to build and train models, implementing **Keras** API to create a sequential model.

Final year capstone project - Fluid Level monitor using IOT based system (Software Engineering) | GITAM | 2017

- Configured an ultrasonic sensor that collected data and relayed it to the internet through a **Wi-Fi module**; transmission enabled worldwide access to sensor data and integrated it to an online server at **iotgecko.com**.
- Programmed the project in **embedded C** with a visual output for the project's website.