

PROFILE

Software Engineer with 3+ years of experience in database administration, data analysis, software development and Machine Learning. Proven track record of delivering high-quality software solutions in a production environment for 30+ clients over my career.

WORK EXPERIENCE

Full Stack Software Engineer

06/23 - Present

CentrAlert, Charlotte, NC

- Engineered a high-performance backend system for the KnowNow! emergency communications app, serving 100,000 active users, using .Net C#, Python, and SQL Server. Architected REST and GraphQL APIs to facilitate efficient data exchange and integration within the application's backend.
- Spearheaded the creation of a collaborative filter-based recommender engine that analyzed 500,000 data points, integrating 30+ features, which enhanced user engagement with personalized content, leading to a 25% increase in user interaction.
- Implemented a cross-platform frontend architecture using Flutter, resulting in a cohesive and responsive user interface that elevated user engagement across web and mobile platforms.

Software Engineering Intern

05/22 - 08/22

CAMP Systems International, Merrimack, NH

- Designed a unified Multi-Factor Authentication mechanism with Identity Server and OAuth2.0 for the CAMP Engine Maintenance suite of applications (REST API) leading to Enhanced Layer of security, and 60 % reduction in Client authentication problems and security bottlenecks.
- Optimized application-data mapping with Entity Framework and PostgreSQL, and utilized AWS S3 for robust object storage, significantly enhancing horizontal scalability to handle increased user load efficiently.
- Performed robust unit tests with XUnit, resulting in 40% decrease in critical production issues and significantly elevated system stability.

Peer Tutor, Data Science

10/21 - 01/22

University of Massachusetts at Lowell, Lowell, MA

- Tutored graduate students for Data Science for Biologist BIOL.4072 graduate level course.
- Presented and explained concepts pertinent to Data Science, Machine Learning, and their practical application in the field of Molecular Biology.
- Designed ML/ Data Science (Scikit Learn, PyTorch, TensorFlow) Learning Material for 30 + graduate students.

Assistant Systems Engineer

07/19 - 07/21

Tata Consultancy Services, Hyderabad, India

- Efficiently managed and maintained Oracle/SQL databases in various environments, reducing downtime by 20% and improving overall system performance.
- Automated the design and construction of Enterprise Cloud (EC) databases using Python, C++, and Shell Scripting, which led to a 30% increase in process efficiency.
- Led the successful migration of 500+ Test and Production Databases from Legacy Servers to the Oracle Cloud architecture, cutting operational costs by 15% and enhancing system reliability.

SKILLS

Python, React JS, C++, C Programming, HTML, CSS, Node JS, SQL (Oracle SQL, PostgreSQL, MySQL), NoSQL (Mongo DB, Cassandra DB), C#, .NET Core, Java, JavaScript, AWS, Docker, Kubernetes, Git, MapReduce, Hadoop, Machine Learning, Natural Language Processing, Shell Scripting, Kafka, Azure DevOps, ETL, Jira, Agile Methodologies.

EDUCATION

Master of Science in Computer Science

08/21 - 05/23

University of Massachusetts Lowell (UMass Lowell), Lowell, MA

- Relevant Coursework: Algorithms, Natural Language Processing, Internet and Web Systems, Deep Learning

Bachelor of Technology in Electronics and Communications Engineering

07/15 - 05/19

SreeNidhi Institute of Science and Technology (SNIST), Hyderabad, India.

PROJECTS

Cryptocurrency Portfolio Application

10/22 - 12/22

- Developed a Python-Flask backend for a cryptocurrency portfolio dashboard, enabling real-time asset tracking and management of 30+ cryptocurrencies, with React JS-based visualization tools.
- Applied a sophisticated LSTM Recurrent Neural Network to model and forecast cryptocurrency trends, delivering a robust 93% prediction accuracy on market prices and empowering users with strategic insights for asset allocation and risk assessment.

Image Fusion using Computer Vision

12/18 - 05/19

- Collaborated in a team of three to develop a deep learning GUI using MATLAB and Python with Django, that synthesized spatial features from dual input images to enhance image definition.
- Implemented VGG Deep Learning framework-based algorithm to accentuate salient features in the fused image output, achieving an 80% improvement in image definition and quality.