

ASHOK SIRIPURAM

SOFTWARE ENGINEER SPECIALIST

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PORTFOLIOS

- <https://ashoksiri.github.io/>

PROFESSIONAL SUMMARY

Highly skilled Software Engineer with **10+ years of experience** designing, developing, and deploying scalable web applications, backend services, and data-driven solutions. Strong expertise in **Python, Django, FastAPI, Flask, React, Angular, Node.js**, and modern JavaScript frameworks. Proven experience across the full SDLC, including architecture, development, testing, CI/CD, cloud deployment, and production support.

Experienced in building robust RESTful APIs, **Microservice's, Microfrontend's** and data pipelines, integrating with **SQL/NoSQL** databases such as **PostgreSQL, MySQL, Oracle, MongoDB, Cassandra, and HBase**. Hands-on experience with **AWS ECS, ECR, S3, Lambda, Azure AKS, Docker, Kubernetes**, and containerized application deployments. Skilled in working with big-data technologies like **Hadoop, Hive, Spark, Oozie**, MapReduce, and streaming data processing.

Developed and maintained social media analytics platforms, enterprise applications, and automation tools using Django, DRF, FastAPI, Angular, React, and **Airflow**. Strong understanding of **OAuth2, JWT, authentication workflows**, cloud networking, and secure application design.

Adept at **Agile/Scrum**, version control (**Git/SVN**), **DevOps** pipelines, and production-grade deployments using **Nginx, Apache, Gunicorn, and uWSGI**. Demonstrated ability to quickly learn new technologies, write clean and maintainable code, and deliver high-quality solutions in fast-paced environments.

SKILLS

Scripting Languages: Shell, Python



Programming Languages: Java, SQL, Golang, Scala, Node.js



Frontend Technologies: HTML, CSS, AngularJS, Angular, React, JavaScript



Databases: Oracle, MySQL



NoSQL Databases: MongoDB



Cloud Technologies: Azure, AWS , Devops, Jenkins, Docker, Kubernetes



Operating Systems: Linux, Windows



WORK HISTORY

Software Engineer Specialist, 10/2024 - Current

Hitachi Vantara LLC – Hyderabad, India

- Developed scalable and maintainable code, ensuring long-term stability of the software.
- Integrated new technologies into existing systems, increasing capabilities and improving overall performance.
- Developed reusable components that significantly reduced development effort on multiple projects.
- Implemented effective debugging strategies, resulting in fewer software defects and increased reliability.
- Reviewed code, debugged problems, and corrected issues.
- Integrated third-party APIs to enhance functionality and improve overall user experience on web platforms.
- Enhanced user experience by developing and implementing a responsive front-end interface for web applications.
- Enhanced database efficiency with design of normalized database schemas.
- Contributed to application scalability by integrating cloud-based services like AWS into the development stack.
- Environment: **Python 3.x, Django, OpenID, Material UI, tailwind, React Typescript, AWS ECS, Teamcity, bitbucket, Okta/Auth0 SSO.**

Senior Consultant, 04/2021 - 10/2024

ADP – Hyderabad

- Micro Frontend with lazy loading of applications.
- Integrated Redux and store management for single state of data management for entire application.
- Create multiple rest services using Python Fast API with type safe.

- Worked on MongoDB to save and manage the application data and wrote custom queries to filter and aggregation.
- Worked on Kubernetes to deploy the application to have high availability.
- Worked on ingress and DNS mapping for application to be available on specific domain or DNS record.
- Good experience in code maintaining with bitbucket and git and gitlab.
- Integrated bitbucket with Jenkins so that every commit will auto deploy to specific environment servers like dit, fit, iat and prod.
- Developed Front end components with Typescript Based and also implemented cypress test cases for integrations testing.
- Implemented pytest cases for backend services and also implemented sonar lint for better source code management and find data leak problems.
- Successfully integrated Azure AAD with SSO authentication so that no user need maintain login module separately for authentication and authorizations.
- Environment: **Python 3.x, Flask, FastAPI, OAuth2Lib, Synerg UI, tailwind, React Typescript, Kubernetes, Jenkins, bitbucket, AAD SSO.**

Block Chain Developer, 11/2019 - 04/2021

HASHCORP – Hyderabad

- Create Block Chain Network using Hyper ledger Fabric on Docker, Kubernetes.
- Deploy Block Chain Network using AKS Cluster.
- Developing Smart Contract Using Golang and Node.js.
- Developing Rest API to Connect with Hyperledger Network to Instantiate transactions.
- Develop Helm Charts to Create Hyperledger Network on Kubernetes Cluster.
- Writing Ingress Rules to Access the Services from the Kubernetes Ingress Controller in optimized manner.
- Manage AKS Clusters on Azure and manager Storage Accounts.
- Create and Add Public Static IP Addresses to Ingress Controller so that we can access though internet.
- Having Good Knowledge on Blockchain Explorer and Hyperledger Caliper.
- Build Custom Docker Images as per the Requirement of Deployment.
- Environment: **Python 3x, Docker, Kubernetes, AKS, Helm3, GitHub, NodeJS, React, Terraform, Azure Storage, Postgres, Golang**

Python Django Developer, 02/2017 - 04/2021

MSRCOSMOS – Hyderabad

- Built social data receivers to collect data from Facebook, Twitter, YouTube, and news sources using APIs (Graph API, Twitter API, YouTube API).

- Developed Django management commands to schedule automated data collection via cron jobs.
- Managed **MongoDB** throughout the application lifecycle, including schema design and performance optimization.
- Created a multi-tier **Django Admin panel** for super admin, admin, and client-level access.
- Designed ORM models using **Django ORM** and **SQLAlchemy** for efficient data handling.
- Developed RESTful services using **Django Rest Framework** with OAuth2-based authentication.
- Implemented social login using third-party authentication (Social Auth).
- Wrote complex **MongoDB aggregation queries** for reporting and analytics.
- Built dynamic UI templates using Django Template Language.
- Implemented language translation using **Google Trans API** and **sentiment analysis** using TextBlob and VADAR.
- Deployed Django applications on IIS (FastCGI), Apache2, and Nginx with production servers like **Gunicorn** and **uWSGI**.
- Managed deployments in **Azure PaaS** and cloud environments.

Angular Developer, 11/2019 - 07/2020

MSRCOSMOS – Hyderabad

- Created reusable UI components, implemented state management, and ensured code modularity and reusability.
- Worked with **TypeScript**, **HTML5**, and **CSS3** to develop clean, maintainable front-end code.
- Consumed and integrated RESTful APIs to render data and drive user interactions.
- Implemented **routing, lazy loading, and module splitting** for improved performance and modular architecture.
- Collaborated with backend teams to integrate front-end with services (e.g. Django/Node.js APIs) and ensured seamless data flow.
- Used version control (e.g. Git) and followed agile development practices in a cross-functional team.

Python Developer, 02/2019 - 10/2019

EDDIEBAUER – Hyderabad

- Developed reusable Python packages to standardize and simplify ETL processes.
- Designed and managed **Apache Airflow** workflows for Python, Shell, and automated ETL tasks.

- Built and maintained ETL pipelines, integrated with Airflow, for scheduled data processing.
- Managed **Tableau Server jobs** to ensure accurate and timely report generation.
- Utilized **AWS Athena** and **Redshift** to load and transform data from MSSQL sources.
- Executed **AWS Glue jobs** to prepare and catalog Athena datasets from S3.
- Worked across AWS services, including **S3, Lambda, Athena, Redshift, and Glue**, for end-to-end data processing.

Java Hadoop Developer, 02/2016 - 01/2017

HCube – Hyderabad

- Worked on **Hortonworks and Cloudera Hadoop distributions**, managing large-scale data environments.
- Strong hands-on experience with **HDFS**, including loading, managing, and migrating data.
- Developed and optimized **MapReduce algorithms** for data processing, cleaning, and transformation.
- Built ETL pipelines using **Flume, Sqoop, and Oozie**, including custom Flume interceptors and channel selectors.
- Integrated data from multiple sources into **HDFS**, and exported processed data to relational databases for reporting.
- Performed **Hive-based data partitioning and querying** to support BI and analytics teams.
- Managed cluster administration tasks, including **node commissioning/decommissioning** and failure analysis.
- Worked with **AWS cloud services** for data integration, migration, and scalable processing.

EDUCATION

Bachelor of Technology: Mechanical Engineering, 07/2014

JNTUH - Hyderabad, India

CERTIFICATIONS

Certified Kubernetes Application Developer, 08/2022