
Summary:

Passionate Software Engineer skilled in developing **full stack distributed applications** and integrating **RESTful API services** for seamless automation and enhanced user experience. Proficient in **Python, NextJS, AWS** and **SQL**, with a strong track record of delivering high-impact solutions. Seeking for SDE roles to contribute to innovative and impactful projects.

Experience:

Florida State University	Tallahassee, Florida
Software Engineer	May 2024 – Present

- Led the development of a **Python-NextJS** based real-time streaming application from concept to production supporting **10+** teams in fault diagnostics and saved \$40000 annually.
- Migrated ReactJS codebase from **JavaScript to TypeScript** for type safety and reduced runtime errors by **20%**.
- **Mentored** 4 interns to develop a **RAG-based AI support system**, providing aid to workers on unfamiliar tasks.

Florida State University	Tallahassee, Florida
Software Engineer Intern	December 2022 – May 2024

- Streamlined CI/CD **deployment** using **Docker, Jenkins** to enable automation, and decreased **downtime** by **55%**.
- Restructured the codebase using standard design principles and optimized **PostgreSQL** queries, reducing unnecessary API calls and enhancing the **performance** of third-party **integrations** and **API** workflows.

Amdocs	Pune, India
Infra Developer	July 2021 – July 2022

- Optimized **microservices** and **Oracle 19C** integrations, leveraging **caching** to reduce query execution time by **25%**.
- Utilized **React** functional components, custom hooks, and Apache Echarts to enhance user experience by **30%**.
- Managed infrastructure ensuring high availability and performance by leveraging **AWS** (Lambda, S3, EKS, Redshift)
- Led **CI/CD** pipeline development with Jenkins, Git, Docker, and Kubernetes, cutting release cycle time by **40%**.

Projects:

CancerKG.ORG (Research Project) ML, LLM, MongoDB, HTML, CSS, JavaScript, GraphQL, PyTorch

- Built a scalable knowledge graph with **13M+** entities and **LLM integration** for advanced insights on Cancer data.
- Created a **responsive** web UI using Apache Echarts, React for accessing **graph** nodes, chatbot and **search** engine.
- Optimized query response and page **reload** time by **98%** using range-based requests, lazy loading and caching.

Recipe Recommendation System Python, Django, JWT, Object Oriented Designing, ReactJS, TypeScript, AWS, MySQL

- Developed an AI-driven **recommendation** platform to suggest recipes based on user preferences and feedback.
- Enhanced catalog management and user engagement via **personalized** recommendations based on **user activity**.
- Deployed on **AWS** using CodePipeline and CodeBuild with S3, EC2, VPC and CloudFront, ensuring **99.9%** uptime.

SQL-LLM ChatBot Python, LLM, Streamlit, MySQL, LangChain, OOPs, Docker, Github

- Designed a scalable chatbot to ensure seamless integration of LangChain and Groq for SQL query generation.
- Incorporated supporting SQL databases for real-time query execution, and secure credential management.

Education:

Master's in computer science, Florida State University	May 2024
Bachelor's in Electronics, National Institute of Technology, Calicut	May 2022

Skills:

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- **Software Languages:** Python, Java, JavaScript, TypeScript, Shell, SQL, HTML, CSS
 - **Frameworks and Libraries:** Flask, Django, ReactJS, NextJS, Apache (Kafka, Airflow, Spark)
 - **Databases:** MySQL, PostgreSQL, Oracle 19C, MongoDB, Snowflake
 - **Cloud:** AWS (Kinesis, Glue, Step functions, EC2, S3, Lambda, RDS, SNS, IAM, VPC)
 - **Developer Tools:** Jenkins, Docker, Ansible, Git, Grafana, Power BI, Prometheus

Achievements:

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- **CancerKG.ORG** contribution as **backend** engineer received NSF funding of **\$550K** and accepted in **ACM CKIM 2024**.
 - **Text-to-Image Generation** has been accepted in the Image and Computing Vision Journal of Elsevier publications.
 - Won **1st** place and **\$500** at ICE FAIR#3, Amdocs, for best technical project presentation with a business focus.