Sai Kiran **Kalyankar**

Enthusiast Problem Solver, MS CS Grad with 5+ years of Experience

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▤ Competencies

Languages :	C, Java, C#.NET, TypeScript, JavaScript, PHP, Python
Web Technologies :	J2EE, SalesForce, React, Angular
Databases and Data Engineering Tools :	Oracle DB, MySQL, PostgreSQL, MongoDB, SQLite, Hadoop, Hive
Integrated Development Environments :	Android Studio, Visual Studio, Eclipse, NetBeans, VS Code, IntelliJ
Operating Systems :	Windows, Linux
Other Skills :	Mobile App development, Windows App development

💼 Experience

May 2023- Aug 2023 — Software Engineer Intern — Amrock-Rocket Companies, Detroit

> A key contributor as a Full Stack Developer with Technocrats Team Platform Train to migrate their monolith internal product(Atlas) to the Cloud by developing micro-services, enhancing scalability and efficiency.
> Contributed to frontend design (Angular), developed robust backend (C# and ASP.NET), Event-Driven architecture with Pub/Sub messaging model, APIs for user-friendly interface and data processing, assisted the team in bug fixing, addressing feature requests, resolving security vulnerabilities, writing unit tests and integration tests for the code and APIs developed along with regular code reviews, ensuring high quality and adherence to company coding standards.
> Active Agile team member drove innovation through sprint planning, daily stand-ups, and retrospectives.

Angular | C# | .Net 7 | ASP.Net | MS SQL Server | Docker | AWS | Azure DevOps | CQRS | NServiceBus | Monorepo | GraphQL | Splunk

Nov 2022- Sept 2023 — Graduate Research Assistant — LHEI(Lab for Health & Environmental Informatics)-Wayne State University, Detroit

> Worked as Research Assistant under Dr. Nic DePaula in tasks related to the lab and his research.

React | Python | pandas | matplotlib | Jupyter | Django | Docker | AWS | Geo | GIS | Data Analytics | Government Administration

Feb 2022- Aug 22 — Analyst, Specialist, Application Development — DBS Tech India(DBS Bank)-Hyderabad

> Worked as Java Full Stack developer, As part of Consumer Banking for Investment and Insurance Project - FinTech.
> Senior Backend Developer as part of SAILOR team (C2E) worked on the Gamification Project(NavGames) with ownership of Product development for Internet Banking and Mobile Banking users about financial planning for Digibank.
> Collaborated with cross-functional teams, documented tech and design specifications, presented project proposals and progress updates to higher management, conducted code reviews, and mentored junior developers.

Spring-boot | Micro-service | Java 11 | Groovy | GoLang | MariaDB | REST | GraphQL | Pivotal Cloud Foundry | Product Dev | Gamification
Figma | Unit Test | Redis | Maven | Gradle | SonarQube | Bitbucket | Jira | postman | Jenkins | NAV-Planner | HLD | LLD | Mentorship

April 2021- Feb 2022 — Technology Analyst — Infosys - Client : Verizon-Hyderabad

> Worked as JavaScript Full Stack developer as part of VZ Network Transparency ART(Service Assurance), Designed, developed, and maintained RESTful API endpoints following SAFe agile framework, collaborating with business and research teams in story grooming, reviewing story/acceptance criteria and Iteration planning
> Led developing Micro-services including design and implementation of new products and features while also enhancing the existing product suite using an asynchronous messaging system for microservices with security standards, proven history of service ownership, operational excellence, and successful incident response and remediation

ReactJS | NestJS | Microservice | NPM | NodeJS | TypeScript | TypeORM | JavaScript | SCSS | Pug | handlebarsjs | Kubernetes | Docker
Jenkins | Postgres | MongoDB | Jest | GIS | CI/CD | pulsar-client | Sonar | Fortify | TwistLock | Echo | Kirke | NetworkPulse | notifications

Dec 2017- April 2021 — Engineer - Technology — Virtusa - Client : Openreach - BT(British Telecom), Lloyds Banking Group-Hyderabad

> Completed Full Stack Java developer training, Developed applications as PoCs using best practices of Java EE and frameworks such as Spring, Hibernate, MVC, and Angular.
> Worked on LLUMS, a web based database application for tracking, notifying and reporting various activities carried out as LAMP Stack Backend Developer.
> Developed application components in an Agile environment utilizing a test-driven development using different data points from strategic systems to track E2E fiber build activity for SiteTracker(integrated with Salesforce) Squad using Hadoop as a Service (HaaS), With a proven history of delivering results in complex cross-functional teams.
> Was involved in major migration process, developing data models, pages, migration scripts, and optimizing system.
> Development of scripts to achieve the scheduling and automation of daily, weekly and monthly processes which include the generation of reports, and processing of real-time batch-feed, Logging, including Inventory Self Service Reports and billing reports using Spring, IBM MQ Messaging Queue including configuration and administration.
> Used DevOps principles to add new functionality to LLUMS as required to align Openreach's products, Involved in the continuous enhancements including functional & non-functional requirements and fixing of production issues.
> Database tuning and optimization for MySQL and Postgres, SharePoint Excel File IO, SMTP notifications to monitor.
> Presented, collaborated and added value to the team through documentation, debugging, root cause analysis and participation in peer code reviews, mentoring other engineers, providing comments and suggestions.

J2EE | Spring | Hibernate | JUnit | Mockito | MVC | Spring-Boot | Bootstrap | JS | jQuery | PHP | MySQL | Unix | Shell | bash | Git
SVN | REST | Self-Service Views | documentation | cron | GitLab | Citrix XenApp | IBM MQ | SOAP | Hadoop | hive | HUE | oozie | ETL

🧪 Projects

Dec 2023	**Lipidomics Department WebApp**	Independent Project-Wayne State University

> Working on building a Full Stack Web Application Solution for Lipidomics Department at WSU.

`ReactJS` `Python` `FastAPI` `Spring Boot` `MySQL` `GitLab` `JS` `Bootstrap` `nginx` `bash` `Docker`

Nov 2023 — **Detroit Auction Shippers** — Independent Project-Detroit

> Created Full Stack Web App for an Auction Shipper Company in Detroit for Real-time use.
> Integrating GenAI using Spring AI, OpenAI, LLM

`ReactJS` `Spring Boot` `MySQL` `Git` `SPA` `Bootstrap` `SMTP` `HTML` `CSS` `AWS` `EC2` `S3` `RDS` `Business and Architect Solution`

Dec 2023 — **Text Spam Detection** — Course Project-Wayne State University

> Using machine learning techniques processed data through essential libraries, conducted exploratory analysis, and performed feature engineering, Constructed a prediction model achieving accurate classification of spam texts.

`ML` `Support Vector Machines (SVM)` `Multinomial Naive Bayes` `Gaussian Naive Bayes` `Logistic Regression` `Random Forest` `AdaBoost`

Apr 2023 — **3D Graphics Renderer using OpenGL, C++** — Course Project-Wayne State University

> Developed a 3D graphics renderer leveraging OpenGL and C++ to create immersive visualizations. Implemented scene composition, lighting effects, and texture mapping for realistic rendering. Applied geometry transformations, rendering techniques, and mathematical algorithms to achieve high-quality graphics.

`Geometry transformations` `Rendering pipeline` `Texture mapping` `Lighting techniques` `mesh` `Ray tracing` `OpenGL programming`

Apr 2023 — **Sentiment Analysis on Political Tweets** — Course Project-Wayne State University

> The aim of this project is to perform sentiment analysis on political tweets during the 2020 United States presidential election.to analyze the sentiments of tweets related to the election, identify the patterns, and explore different techniques of data mining from simple classification models to more advanced models.

`Data Mining` `NLP` `NLTK` `scikit-learn` `Sentiment Analysis` `Vader` `Random Forest` `Logistic Regression` `RNN` `LSTM` `Choropleth`

Dec 2022 — **The Big Five Personality Analysis** — Course Project-Wayne State University

> The Project goal is to use unsupervised clustering techniques to identify natural groupings or patterns within the data. These groupings may reveal relationships between the different personality traits and potentially provide insights into the underlying structure of personality using the Big Five Personality traits dataset and custom inputs

`Python` `Google colab` `IPIP dataset` `sklearn` `K-Means` `PCA` `Data Preprocessing` `Data visualization` `Intelligent Systems`

Dec 2022 — **Instant NGP** — Course Project-Wayne State University

> Implementation project on Paper about Instant Neural Graphics Primitives with a Multiresolution Hash Encoding by NVIDIA, Using own custom real-time data

`Machine learning` `3D computer vision` `neural-network` `computer-graphics` `realtime` `pytorch` `gpu` `cuda` `python` `colmap` `GAN` `VAE` `signed-distance-functions` `nerf` `3d-reconstruction` `function-approximation` `real-time-rendering` `HPC` `Deeplearning`

Feb-Mar 2017 — **Automatic Curation of Images** — Internship-Teletext Holidays

> Automatic curation of images based on the user's requirement primarily in order to check if descriptions can match the image's contents and to validate images against their respective descriptions primarily to curate the hotel images of the website as per the user's preferences.
> Real-time scene classification using Caffe's deep learning framework and Object Detection using YOLO's CNN over Machine Learning Techniques.

`Machine Learning` `CUDA` `cuDNN` `Flask` `Caffe` `YOLO` `OPENCV` `Bootstrap` `Python`

Jan-Apr 2017 — **Authentication Using Graphical Passwords** — Major Project-Vardhaman College

> In this project an authentication portal has been designed where a Multi-factor authentication system is built on top of Puzzle technology to make passwords easier for people to use and therefore more secure.
> With an Add-On feature of Face Recognition (using Haar Cascade Classifier) based on Machine Learning Techniques.

`NetBeans` `JSP` `Servlet` `JavaScript` `MYSQL` `Apache Tomcat` `OPENCV`

Aug 2016 — **SECRET MESSAGE SERVICE APP(Cryptex)** — Mini Project-Vardhaman College

> Created an Android App enabling encrypted messaging, decryptable by the intended recipient using a provided key.

`Android Studio` `SQLite Database` `AES Cryptographic Algorithms` `Google Play Store https://bit.ly/SKapp_Cryptex`

Sept 2015 — **PLAY MY TRACK (Android & Windows)** — Independent Project-Google Play Store, Microsoft Store

> Developed Music Player Apps with a Unique feature of playing two media files, one on each ear-bud of the pair of In-Ear earphone. for Android, Windows phones, Desktop. Using Android SDK, Java, Kotlin, C# .Net, Windows SDK.

`Windows https://bit.ly/SKapp_PMT` `Android https://bit.ly/SKapp_PMTA` `Material Design` `Adobe Photoshop` `Android Studio` `Visual Studio`

Jan-Feb 2015 — **BLUEBUDDY - Wireless Chatting Without Internet** — Project Exposition-CETA

> Developed an Android app for Bluetooth messaging and can hence be used without Internet access.

`Android Studio` `Bluetooth APIs` `BluetoothSocket` `Open Source Project` `Google Play Store http://bit.ly/SKapp_BlueBuddy`

🎓 Education

2022 - 2024	Wayne State University	Public, USA	MS, Computer Science (Starting Fall'22)	3.74/4
2013 - 2017	Vardhaman College of Engineering	JNTUH	B.Tech, Computer Science and Engineering	6.82/10
2011 - 2013	Narayana Junior College	BIE	Intermediate (MPC)	90.50%
2010 - 2011	Brilliant Grammar High School	State Board	SSC	82.00%

🏆 Achievements

June 2023	Received **Amaze Recognition** for creating team's GraphQL Service -**Rocket Companies Hackweek Q2**.
Aug 2022	**DBS TECH India Annual Award** Top Engineering Team - SAILOR - C2E.
Nov 2020	**Appreciation and tribe recognition** for the work in "*Agile SiteTracker squad*" at BT.
Mar 2019	**Certificate of Appreciation** for exemplary performance and contribution to "*LLUMS team*" at Virtusa.
Dec 2018	**Client Appreciation** with virtual client love badge.
Apr 2017	**Awarded** as the "*Best Outgoing Student*" by department of CSE at Vardhaman College.
June'16	**Published** projects as products for Real-Time use on Microsoft Store & Google Play Store with 10K+ downloads.
Sept 2015	**Won** the first Prize for Windows Phone & Desktop app development in the Project Expo at Vardhaman.
Feb 2015	**Achieved** the first prize for Android Application Development at Vardhaman College.

👥 Responsibilities

Aug'23-24	**Student Assistant and Developer** for creating Full Stack Solutions, Maintaining, and enhancing the Lipidomics Core Facility Department website for the School of Medicine at WSU.
Jan-Apr'23	**Lab Instructional Teaching Assistant** for Data Structures and Algorithms using C++, CSC 2200 Computer Science II at WSU, provided teaching, contributed to course assessment, mentoring, and grading support to 60 students.
Aug'15-17	Was the **college coordinator** and a member of the departments organizing committee named **CETA** (*Computer Engineer's Technical Association*).
Sept 2015	**Organized** Web Designing Workshop cum event at *TECHNOLITES'15* -Vardhaman's annual techfest.

⚙️ Technical Activities

Relevant Coursework

> **CSC 6991** *Deep Learning for 3D Shapes and Scenes - Fall'22*.
> **CSC 5800** *Intelligent Systems : Algorithms and Tools - Fall'22*.
> **CSC 6860** *Digital Image Processing & Analysis - Fall'22*.
> **CSC 5870** *Computer Graphics I - Winter'23*.
> **CSC 7810** *Data Mining : Algorithms and Applications - Winter'23*.
> **CSC 5272** *Principles of Cyber Security - Winter'23*.
> **CSC 5750** *Principles of Web Technology - Fall'23*.
> **CSC 6580** *Design and Analysis of Algorithms - Fall'23*.
> **CSC 5825** *Introduction to Machine Learning and Applications - Fall'23*.

Certifications

> **Salesforce** *Platform Developer 1* .
> **Microsoft Technology Associate**:*Software Development Fundamentals*.
> Certified **SAFe 5** Agile Practitioner.
> Certified DBS **Software Security for Developers**.
> Certified DBS **SRE** Practitioner.
> **CISSO** : Certified Information Systems Security Officer.

Hackathons

> My team was shortlisted for the **ICICI Appathon** for creating new solutions in Banking and Financial Services among 3550 entries from all over India on HackerEarth.
> Participated in *Air Travel Hackathon by flydubai* and was among top 10 final teams at **T-hub, IIIT-Hyd**.
> Was among top 5 teams participated in "*Digital India*-hackathon" at **BITS Pilani Hyderabad** conducted by **Microsoft**.
> Participated in a hackathon conducted by DevmenIT, where I have built the unique Desktop App named "**Play my Track**", now available on the Windows Store.

Other

> Completed **ServiceNow** Administrator Training
> Worked on Independent learning POC using MERN Stack and other tech stack to upskill
> Worked on **SalesForce** POC projects using Apex Programming, Visualforce, Triggers, SOQL, Controllers, Workflows, Custom config, and APIs for the development of CRM solutions.
> Participated in **EPAM sponsored Global CodeRetreat** to celebrate passion and software crafting.
> Gave a paper presentation on "*Building Android Apps gets easier with Android Studio*" and a Seminar on "*Android Things*".
> Attended a seminar on Cloud Computing (using IBM Bluemix) by **IBM**.
> Attended the **Windows App Development** workshop, by DevmenIT –a Microsoft partner company.
> Participated in *Battle Code –TechnoVoltz*, National level zonal competition by **Techfest- IIT Bombay**'s annual tech festival.
> Participated in *CodeKraft* and other events at the National level technical fest –Technolites, Vardhaman.