**P**AVAN **K**ALYAN **N**AGENDLA+1 (959) 217 9050 | pa1kalyan18.nagendla@gmail.com **|** [LinkedIn](https://www.linkedin.com/in/pa1kalyan96/) | [Portfolio](https://portfolio-eight-eta-74.vercel.app/)

**Professional Summary\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Driven Software Engineer with over 4+ years of experience leveraging Agile across every phase of the Software Development Lifecycle to deliver modern, robust software solutions that exceed customer’s expectations. As a team player with a positive attitude, I am always eager to employ new ideas, and technologies to achieve organizational goals. I am confident that my analytical, interpersonal skills, and a proven track record of analyzing situations and making decisions in a fast-paced environment, combined with my technical expertise, makes me a valuable asset to any organization seeking to drive innovation and achieve their goals.

**Professional Experience\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**University of central Missouri – Software Developer** Mar 2021 – April 2023

* Led backend development on a slow & unreliable web app that shows results of students using **Java** & **Spring Boot**; Incorporated **microservices** architecture that led to a reduction in **85%** of students' login time which enhanced the result-viewing experience.
* Utilized Java 8 features such as **Streams**, **Lambdas**, **Functional interfaces, Multi-threading**, **Collections**, **Generics**, **Exception handling** and **Execution services** to improve code efficiency and the overall performance by **15%.**

**Cleveland State University – Software Developer** Feb 2021 – July 2021

* Led development of a full stack scalable distributed file-sharing application for researchers to manage and share files.
* Architected and developed the app with **microservices**, **Rest APIs** and used **RabbitMQ** as an intra-service communication.
* Implemented an **API gateway** requests as a middleware to validate/authenticate through **JWT** tokens, to act as a single endpoint.
* Deployed **micro-services** to **OpenShift** cluster scripting resource files through **Jenkin** pipelines on IU Jetstream cloud.
* Achieved up to **1800** concurrent requests per instance, tested through load test in **JMeter.**
* Architected the frontend with **React.js** and the backend with **Java** - **Spring Boot**, **Python** – **Django** using **MongoDB** as storage

**Xsilica Software Solutions - Software Development Engineer** Feb 2017 – Dec 2020

* Designed and implemented a flexible **access control system** that enables users to **share files** with others via **URLs** and **user accounts** while ensuring granular control over file access permissionswhich utilizes **UUID** and **ACLs** for secure data transmission.
* Implemented responsive user interfaces using **HTML**, **CSS**, **React.js**, **GraphQL** and a scalable backend using **Node.js.**
* Contributed greatly to increase code quality and productivity through **Test driven development (TDD),** and **Agile** principles.
* Utilized **MongoDB** to manage data, such as **user information**, **file metadata**, and **access permissions**, ensuring **data integrity.**
* Established and maintained **CI/CD pipelines** using **Jenkins**, automating the build, test, and deployment process.
* Monitored the application's performance and availability by using **AWS CloudWatch** for troubleshooting and analysis.
* Utilized **AWS Lambda**, and **API Gateway** to deploy serverless **GraphQL** backends, reducing operational overhead.
* Optimized code and database queries for efficient handling of file transfers, resulting in a **responsive** & **scalable** file-sharing platform.
* Enhanced **user** engagement by integrating **real-time** notifications using **WebSockets**, notifying users of file uploads, downloads, and shared file updates, improving the overall **user experience.**
* Spearheaded **A/B** testing & **UX** enhancements, leading to a **15%** increase in conversion rates from **free** to **paid** subscriptions.

**Projects\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Grade card application**

* Led backend development on a slow & unreliable web app that shows results of students using **Java** & **Spring Boot**; Incorporated **microservices** architecture that led to a reduction in **85%** of students' login time which enhanced the result-viewing experience.
* Utilized Java 8 features such as **Streams**, **Lambdas**, **Functional interfaces, Multi-threading**, **Collections**, **Generics**, **Exception handling** and **Execution services** to improve code efficiency and the overall performance by **15%**

**Weather Application** (Deployed [here](https://weather-app-nine-bice-49.vercel.app/))

* Responsive, single-page UI to display weather information using **React**, **HTML**, **API**, **Material UI**, **TailwindCSS** and **D3.js**.
* Developed a user-friendly weather application using **React**, featuring a responsive design for seamless user experience across various devices. Integrated real-time weather data retrieval and display, enhancing accessibility and user engagement.

**Skills\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Programming/Scripting Languages :** Java, Python, JavaScript, TypeScript, SQL, HTML, CSS

**Database :** MongoDB, MySQL, Oracle DB, MS SQL

**Frameworks :** ReactJS, Angular, J2EE, Spring (MVC, Boot, Batch), ASP.NET, jQuery, Django

**Testing Tools :** Junit, Jest, Enzyme, Cypress

**Version Control/Project Management :** Git (GitHub, Bitbucket, GitLab), Jira, Sourcetree, Jenkins

**Education\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cleveland State University - Cleveland, Ohio** Jan 2021 –July 2021

Master’s in computer science GPA: 3.70

**University of Central Missouri - Kansas City, Missouri Aug** 2021 –May 2023

Master of Science in Computer Information Systems and Information Technology GPA: 3.23