**PRANAY KUMAR**

# PROFESSIONAL SUMMARY

* Dedicated and skilled professional with 5 years of software engineering experience, specializing in Java API development with proven ability to contribute to performance optimization, scalability, and effective collaboration within cross-functional teams.
* Seeking a challenging position where I can leverage my skills and utilize cutting-edge technologies to drive innovation and contribute to the growth of the Organization.

# EDUCATION

Master’s in computer science University of Central Missouri. August 2021 – December 2022

Bachelor’s, Engineering. Chaitanya Bharathi Institute of Technology, O.U. August 2013 – May 2017

# WORK EXPERIENCE

## Full Stack Developer at Verizon: September 2022 *–* Present

* Involved in **Java** application development, debugging, and maintenance of a distributed system in **microservices** architecture while adhering to the SOLID design principles coding standard and **design patterns**.
* Implemented business logic, database interactions, application **resiliency**, integration with external systems while ensuring data security.
* Worked on responsive and user-friendly web interfaces using **Angular**, HTML, CSS. Building interactive components, implementing data binding, handling user input validation, and ensuring a seamless user experience.
* Utilized Angular modules, routing, forms, **reactive** **forms**, validation, animations, directives, Angular Material UI components and creating custom reusable components.
* Implemented **pagination** for large result sets in **RESTful API** responses, reducing payload size by 40% and improving response times by 30%.
* Utilized **caching** to reduce the redundant data transmission by storing frequent requests on the server, which reduced load on the database.
* Used LRU (Least Recently Used) technique as the cache eviction strategy.
* Worked on an authentication service that grants access to other applications through the implementation of Single Sign-On (SSO).
* Optimized database response times by adding non-clustered indexes for SQL **performance tuning** to optimize complex database queries, achieving a 15% reduction in query execution times.
* Leveraged **logging** and **monitoring** solutions tailored to need using **Kibana**, **Dynatrace** allowing for effective tracking and

troubleshooting of issues.

## Senior Systems Engineer at Infosys Limited: March 2019 *–* August 2021

### Client – Westpac

* Involved in application migration of Enterprise Content Management System to **Microservices** Architecture.
* Developed RESTful APIs with data access objects, data repositories, service layers, data validations, data transfer objects for Complaints Management and Case Management applications.
* Created HTTP method operations for ECM to capture, manage and track customer complaints and cases or incidents, such as fraud investigations, legal matters, customer disputes, or compliance issues.
* Worked on responsive and user-friendly web interfaces using **Angular**, HTML, CSS. Building interactive components, implementing data binding, handling user input validation, and ensuring a seamless user experience.
* Utilized Angular modules, routing, forms, reactive forms, validation, animations, directives, Angular Material UI components and creating custom reusable components for **Single Page Application (SPA)** web development.
* Used Spring MVC with Spring Restful Template to Produce and Consume RESTful Web services.
* Implemented software solutions utilizing advanced technologies and methodologies, improving development turnaround time by 20%.
* Utilized application integration with Apache **Kafka** in system architecture for seamless communication across different microservice, ensuring real-time data processing and scalability.
* Optimized the existing software codebase to reduce needless complexity and boost maintenance and **debugging** efficiency.
* Conducted **unit testing** following Test Driven Development with high test coverage and conducted regular performance testing under various load scenarios, achieving a 20% increase in system reliability and stability.
* Documented systems design, presentations, and business requirements. Produced documentations for new code and systems used.

## Systems Engineer at Infosys Limited: January 2018 *–* February 2019

### Client – Southern California Edison

* Involved in software design, **agile** development, and maintenance of Appliance Energy Use Cost Estimator web application to calculate energy consumption and cost estimates for various household appliances based on user inputs.
* Collaborated with cross-functional teams to understand and implement data integration requirements to Integrate the application with Southern California Edison's data sources to access real-time energy rates, ensuring accurate cost estimations for users.
* Implemented **data validation** mechanisms to ensure the accuracy of user inputs, preventing errors in energy consumption calculations.
* Conducted thorough testing and debugging to identify and rectify any discrepancies in the cost estimation process.
* Involved in all phases of Software Development Life Cycle (SDLC) in Agile environment – Scrum Software development.
* Identified performance bottlenecks of API’s and improved the database response time by 40% by troubleshooting.
* Creating new **indexes**, **performance tuning** thus minimizing CPU usage.
* Involved in pair programming, code review, implemented unit tests with high **code coverage**, **integration tests** within the Continuous Integration and Continuous deployment (**CICD**) pipeline to catch issues early in the development cycle.
* Managed the SQL Server DBA activities including Administration, Migrations, Patching, Backup and Recovery.

**CERTIFICATIONS**

[AWS Certified Developer – Associate](https://aws.amazon.com/verification) (*Z0MM2HY28JE4Q9CR)*

# ACADEMIC PROJECTS

* **Employee Management System:** Crafted systemdesign and developed modules for Employee information, attendance tracking, payroll, performance evaluation, leave, salary, tax deductions, expense Claims and more. Built using Java programming language, Spring boot, Angular, MySQL, Docker and implemented Logging and monitoring with slf4J and Splunk free version.
* **Library Automation System:** Developed an application to digitize various library processes, such as cataloging books, managing borrower information, check-in/check-out, reservations and overdue. Built using Object-Oriented Programming (OOP), C#, ASP.NET, Webforms, SQL server.

# TECHNICAL SKILLS

**Programming Languages:** Java, C#, Python, Typescript, Scala, JavaScript, Kotlin, Data structures, Algorithms, Multithreading

**Scripting Languages:** Shell Scripting, PowerShell, Groovy

**Web Services:** SOAP, Web Service, RESTful webservices, J2EE

**Databases:** Oracle, SQL Server, MySQL, PostgreSQL, DynamoDB, PL/SQL, RDBMS, NoSQL, MongoDB, Cassandra,

**Web Technologies:** HTML5, CSS3, jQuery, Bootstrap, REST API, Git, Version Control System, JSON, XML, JDBC, SLF4J

**Frameworks:** Spring Boot, Spring Framework, Spring Data JPA, Spring MVC, Spring Batch, React JS, Angular, Node.js, Hibernate, ORM

**Design patterns:** Circuit-Breaker, Service-Registry, SAGA, Singleton Design Pattern, Factory, Builder, Observer, DTO, DAO, Value Object.

**Cloud Services:** AWS, Azure

**Tools:** SOAPUI, POSTMAN, OAuth 2.0, DevOps CI/CD, GitHub, Confluence, Sonar, Docker, Kubernetes

**CI/CD Tools:** Jenkins, Bamboo

**Build Tools:** Maven, Ant, Gradle

**Testing Tools:** JUnit, TestNG, Mockito, JaCoCo, Cucumber, Selenium, T.D.D, B.D.D

**Messaging Services:** Apache Kafka, JMS

**IDE:** Eclipse, IntelliJ, Visual Studio Code, Spring Tool Suite (STS), Net beans

**Monitoring Tools:** Splunk, Prometheus, ELK (Elasticsearch Logstash Kibana)

**Others:** Bitbucket**,** Gitlab**,** Jira, Agile Methodology, SonarQube, Swagger, Linux