

# AGAN PETER PIDAPARTHI

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## SUMMARY

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Detail-oriented and results-driven Software Developer with hands-on experience in designing, developing, and deploying scalable and efficient applications. Adept at utilizing Java, Spring Boot, microservices architecture, and cloud technologies to build high-performance systems. Skilled in optimizing backend processes, improving system reliability, and enhancing user experience. Proven ability to collaborate effectively in Agile environments, streamline development processes, and contribute to successful product delivery. Strong problem-solving abilities with a focus on performance optimization, automation, and ensuring secure, maintainable solutions.

## EDUCATION

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**University of Texas at Arlington** — Arlington, TX

Aug 2022 - Aug 2024

Master of Science in Computer Science — GPA: 3.3/4.0

Courses: Cloud Computing and Big Data, Distributed Systems, Algorithm Design, Software Engineering, Distributed Systems, Database Systems, Object Oriented Programming, Operating Systems, Compilers, SDLC

**SRM Institute of Science and Technology** — Chennai, TN

Aug 2017 - May 2021

Bachelor of Technology in Computer Science and Engineering — GPA: 3.7/4.0

Courses: Data Structures, Database Systems, Object Oriented Programming, Operating Systems, Compilers

## SKILLS & CERTIFICATIONS

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**Certifications:** AWS Certified Cloud Practitioner, Meta Front-End Developer, IBM Full Stack Software Developer

**Programming Languages:** Java, C#, C++, Python, SQL, JavaScript, Bash

**Database Technologies:** SQL Server, MySQL, PostgreSQL

**Web Technologies:** REST APIs, Spring Boot, Spring MVC, ASP.NET Core, Node.JS, JUnit, React, Angular, HTML, CSS

**Development Methodologies:** Agile, DevOps, CI/CD, IaaS, PaaS, SaaS

## PROFESSIONAL EXPERIENCE

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**ITTDigital LLC** - New Jersey

Sept 2024 - Present

**Web Developer**

*ITTDigital is a global technology company providing solutions for digital learning, the Metaverse, and enterprise-level digital transformation. For Pfizer Digital, I played a key role in developing applications focused on streamlining data processing, improving user engagement, and scaling infrastructure.*

Responsibilities as a Web Developer:

- Responsible for developing and enhancing the front-end user interface of a clinical trial management application used to track trial data and manage patient records for Pfizer Digital using React, ensuring a responsive and intuitive experience for end-users.
- Designed and implemented RESTful APIs to securely bridge the gap between front-end interfaces and backend data repositories, enhancing the scalability and modularity of the platform.
- Conducted automated testing with Selenium and Specflow to improve test coverage by 40%, enhancing system reliability and performance in response to high user demand.
- Actively participated in the Agile development cycle, managing CI/CD workflows, pull requests, and code reviews to facilitate efficient, consistent releases, while minimizing deployment errors.
- Contributed to version control management using Git, ensuring smooth collaboration and tracking of project progress.

**Accomplishments:**

- Enhanced the clinical trial management app's front-end performance and user experience with **React**.
- Increased the overall test coverage by 40% through automated testing.

**Technology/Modules Utilized:** Java, Spring MVC, Angular, TypeScript, MySQL, RESTful APIs, JSON, Apache Tomcat, JUnit, Selenium, Bootstrap, Git, CSS3, HTML5, Webpack

**Programmer Analyst / Programmer Analyst Trainee**

*I worked with Northern Trust Bank, contributing to the development of a pocket app and optimizing backend services to enhance functionality and user experience. The app aimed to deliver a seamless and secure experience across devices, integrating backend services with Northern Trust's main systems to ensure consistent data flow and reliable performance. I also worked on an in-house project at Cognizant involving the development of an insurance claim processing platform designed for modularity and fault tolerance. I collaborated with senior engineers to design and implement a microservices-based solution that allowed dynamic scaling and rapid deployment.*

**Responsibilities as a Software Developer:**

- As a member of a team of 9, contributed to the development of a pocket app, designed to give users a streamlined, mobile-friendly experience for managing personal finance. Built backend services in Java and Spring Boot, focusing on modularity, security, and seamless data integration.
- Participated in building scalable backend components using Java and Spring Boot, while designing RESTful APIs to enable secure and efficient communication between services.
- Worked on improving backend response times by implementing caching strategies and optimizing code logic, achieving a 20% performance boost.
- Deployed app components on AWS (EC2, Lambda, S3), and implemented CI/CD pipelines with Jenkins to ensure smooth, automated updates, reducing manual intervention and improving deployment consistency.
- Designed user authentication and role-based access control with Spring Security, implementing token-based authentication to secure data access and enhance overall application security.
- Collaborated closely with Agile teams to gather requirements, refine features, and deliver high-quality releases that aligned with client expectations and regulatory requirements.
- Conducted load and stress testing to ensure app stability and reliability under peak conditions, contributing to an enhanced user experience and improved app resilience.
- Developed microservices for a scalable, high-availability insurance claim management system using Spring Boot and Spring Cloud, enabling dynamic scaling and rapid deployment.
- Optimized data handling by integrating ORM frameworks, achieving a 15% improvement in query execution speeds and enhancing backend processing efficiency.
- Built and maintained CI/CD pipelines using GitLab, automating the deployment process to improve development consistency and reduce manual errors during releases.
- Developed unit and integration tests using JUnit and Mockito, ensuring that all features were thoroughly tested before deployment.
- Refactored legacy code to improve maintainability and reduce technical debt, contributing to long-term project sustainability.

**Accomplishments:**

- Improved app performance by 20% with code optimization and caching.
- Successfully deployed app components on **AWS**, ensuring scalability and reliability.
- Creation and automation of CI/CD pipelines using **Jenkins**, ensuring smooth deployment cycles and reducing release times by 30%
- Implemented robust role-based access control and token-based authentication using Spring Security for the Northern Trust pocket app, which significantly increased data security and protected user information.
- Contributed to the development of a robust **microservices architecture** for scalable and fault-tolerant deployment.
- Enhanced the system's data handling capabilities by integrating **ORM frameworks** with **Spring Data JPA**, improving query execution speeds by 15% and optimizing backend processing for quicker data retrieval.

**Technology/Modules Utilized:** Java, Spring Boot, Spring Cloud, Spring MVC, JPA, MySQL, Hibernate, Spring Security, Kafka, AWS (S3, EC2, Lambda, RDS), Docker, MongoDB, Redis, Apache Camel, Thymeleaf, Bootstrap, Git, Jenkins, Maven, JUnit, Mockito, ELK Stack, Jenkins, CI/CD

**Accomplishments:**

- Achieved a 15% improvement in query execution speed and backend efficiency.
- Contributed to the development of a robust **microservices architecture** for scalable and fault-tolerant deployment.
- Enhanced the system's data handling capabilities by integrating **ORM frameworks** with **Spring Data JPA**, improving query execution speeds by 15% and optimizing backend processing for quicker data retrieval.

**Associaite Intern**

*Kaashiv Infotech, an Engineering Consulting Services (ECS) provider, focuses on developing custom data management systems. During my internship, I assisted in building an internal data processing application to handle and organize complex datasets efficiently.*

Responsibilities as a Associaite Intern :

- As a member of a small development team, assisted in the creation of an internal application to manage and process complex datasets efficiently.
- Worked on data storage, retrieval, and processing to improve the efficiency of internal operations.
- Collaborated with front-end developers to ensure smooth API integration, enabling efficient data retrieval and enhancing user experience.
- Contributed to back-end development using Python and MySQL, optimizing workflows for improved operational efficiency.
- Enhanced the overall performance of the data management system by optimizing complex data workflows and improving accessibility.

**Accomplishments:**

- Enhanced the performance of the data management system by optimizing data workflows, resulting in faster data processing and improved overall system efficiency for internal stakeholders.
- Developed **backend components** using **Python** and **MySQL** to support a centralized data management system that streamlined internal data handling and processing across multiple departments.

**Technology/Modules Utilized:** Python, Flask, AJAX, Django, JIRA, Pandas, NumPy, Celery Confluence, Jenkins, Docker, Pytest, Redis, JSON