

Pranavi Sharma Sanganabhatla

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Professional Summary

Dynamic Software Engineer with over 3 years of experience in implementing and optimizing applications across diverse environments. Proficient in Python, Java, and SQL, with proven success in increasing user efficiency by 25% and reducing system downtime by 30%. Accomplished in developing scalable solutions and enhancing performance through seamless integration and automation. Eager to bring technical expertise and collaborative spirit to contribute to innovative software implementations.

Experience

Associate Software Engineer, MTX Group Inc. – Frisco, TX May 2024 – Nov 2024

- Spearheaded Salesforce development for public sector applications, customizing workflows and automating processes using Python and SQL, boosting user efficiency by 25%.
- Streamlined system performance for public sector applications, cutting downtime by 20% and enhancing end-user satisfaction through strategic bug resolutions and performance optimizations using Kubernetes and Docker.
- Diagnosed and resolved critical issues, reducing system bugs and achieving a 30% decrease in overall downtime through troubleshooting Python-based systems.
- Engineered seamless integration of third-party APIs and legacy systems, optimizing data flow and accelerating processing time by 15% for large-scale government operations using Spring Boot.

Software Engineer, NCSU, Raleigh Aug 2023 – May 2024

- Assisted the professor in hosting course materials on GitHub, facilitating easy access and collaboration for students.
- Developed interactive web applications using Python, Django, JavaScript, React.js and AWS to provide additional clarity on challenging topics such as Hofstede's cultural dimensions and also enabling students to collect data for their analysis.
- Conducted office hours to provide technical support, guide students in coding, and address course-related inquiries, including integrating and applying generative AI technologies.

Software Engineer, MTX Group Inc. – Hyderabad, India Aug 2021 – Aug 2022

- Collaborated effectively with cross-functional teams on 7 projects by facilitating the architecture, development, and maintenance of robust back-end/front-end systems for web applications using Java, Angular and Spring Boot, resulting in a 20% reduction in project development time.
- Demonstrated coding proficiency in Python, Java, and achieved a 95% code review approval rate, indicating code quality and maintainability
- Designed and implemented RESTful APIs for 5 web and android applications, resulting in a 15% improvement in application response time.
- Actively participated in Agile development processes, consistently meeting project milestones with a 98% on-time delivery rate.
- Implemented rapid troubleshooting protocols, resulting in a 40% decrease in the mean time to resolve issues.

Software Engineering Intern, MTX Group Inc. – Hyderabad, India May 2021 – Aug 2021

- Delivered AngularJS websites boosting user engagement by 15% and reduced page load times.
- Constructed an automated testing framework using Python, Selenium enhancing test coverage by 70%
- Optimized and debugged software components, improving product performance by 15%

Software Engineer, Patra Corporation – Vishakapatnam, India Aug 2019 – Dec 2020

- Configured and enhanced Salesforce solutions to automate insurance workflows, reducing manual processing time by 40% and ensuring seamless data integration across platforms.
- Optimized microservice architecture, cutting system latency by 35%, and improving application response times for policy management.

- Transformed legacy insurance processing systems by integrating cloud-based scalable solutions, reducing claim processing delays by 50% and improving underwriting efficiency.
- Designed and maintained 20+ RESTful APIs, streamlining data exchange between third-party insurance tools and internal platforms, enhancing data accuracy by 30%.
- Increased deployment efficiency by 60% through the implementation of CI / CD pipelines, reducing time to market for critical insurance applications.
- Coordinated with cross-functional teams to integrate front-end applications with insurance databases and back-end services, improving collaboration and reducing development cycles by 20%.
- Enhanced automation testing frameworks, increasing test coverage by 70% and reducing post-release defects.
- Developed and optimized analytics dashboards, providing real-time insights into claims, policy renewals, and risk assessments, improving decision-making efficiency by 45%.

Projects

Wolf Parking Management System

Nov 2023 – Dec 2023

- Directed the design and deployment of the Wolf Parking Management System, leveraging BCNF and 3NF normalization, SQL triggers, and functions, improving efficiency by 20%.
- Integrated advanced reporting using SQL queries and implemented high-level indexing strategies, optimizing query performance for databases, resulting in a 45% reduction in response time, enhancing overall system efficiency.
- Tools Used: C++, MFC, SQL Server, Visual Studio, Git, Microsoft Access.

Image Classification using CNN and ResNet Model

Mar 2023 - Apr 2023

- Focused on the categorization and grouping of animal images and leveraging the dataset to meticulously train and test machine learning algorithms, leading to a 25% improvement in predictive accuracy and a 30% reduction in data pre-processing time.
- Tools Used: Python, MFC, OpenCV, TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib

Certifications

- AWS Certified Solutions Architect – Associate (In Progress)
- Java Spring Boot Microservices Certification

Education

North Carolina State University, MS in Computer Science, GPA: 3.5/4.0

Aug 2022 – May 2024

- **Coursework:** Software Engineering, Cloud Architecture and Security: AWS Academy, Advanced Database Management Systems, Advanced Data Structures and Algorithm Analysis.

Technologies

Languages: Python, R, Java, Ruby, Kotlin, C, C++, C#, SQL, Bash, Lua, Scala

Databases : MySQL, PostgreSQL, SQL Server, SQLite, Oracle, NoSQL

Web development : SOAP, REST, Angular, HTML, CSS, JavaScript, TypeScript, Bootstrap, jQuery, Ajax, JSON, XML, GraphQL.

Frameworks/Libraries: Spring MVC, Hibernate, React.js, Microservices, Spring Security, Node.js

Visualization Tools and Version Control: Tableau, Power BI, Microsoft Excel, GitHub, Jenkins, Jira

Methodologies : SDLC, Agile, JIRA

Operating Systems : Windows, iOS, Linux, Raspberry Pi

IDE's: NetBeans, IntelliJ IDEA, Eclipse, Visual Studio Code, PyCharm