

# PAGADALA SREENIVAS

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## EDUCATION

**Indiana University, Bloomington**

**Bloomington, INDIANA**

*Masters (MS) in Computer Science;*

*Aug 2023 - Dec 2024*

**Coursework:** Applied Algorithms, Programming Languages, Databases, Software Engineering, Computer Networks

**Sri Sivasubramaniya Nadar College of Engineering, affl to Anna University**

**Tamilnadu, INDIA**

*BTech in Information Technology; CGPA: 8.63 /10*

*August 2017 – August 2021*

**Coursework:** Operating System, Database Management, Algorithms, Web Development, Software Engineering

## TECHNICAL SKILLS

**Proficient in:** Java, python, Javascript, MySQL, RESTful APIs, Angular JS, Anuglar 8, ReactJs

**Others:** C/C++, Postman, Git

**Familiar with:** Docker, Jenkins, OpenCV, Postman, Node.js

**Interests:** Software Development, Full Stack, Back-end development, Front-end development, DevOps.

## EXPERIENCE

**Optum Global Solutions**

**Dec 2021 - May 2023**

*Software Engineer (Java, Groovy, RESTAPI, AngularJs, Angular8, Docker, MySQL, Jenkins, Git, BitBucket, Postman) Telangana, INDIA*

- Worked as part of the Medical Benefit Management Project which assists health plans and self-insured companies and aims to manage organisational risk, lower overall healthcare expenses, and improve patient outcomes for those with complicated disease conditions.
- Fostered strong relationships with Product Owners, aiding in feature prioritization, and worked synergistically with Scrum Masters to bolster the development process.
- Monitored and responsible for the testing, pre-production and production stages of the code changes. Operated in an Agile environment which included sprint planning, daily stand-up, Jira tickets, retrospectives, reviews and documentation.
- Accomplished over 15 visual modifications as per the specifications of UI/UX designers and integrated front-end elements to the backend by using RESTful APIs.
- Designed and built a microservice, enhancing system efficiency by 20%, and collaborated on its integration and documentation for seamless team adoption.
- Leveraged tools like MySQL to design and oversee databases, ensuring data integrity and performance.
- Utilized Git for meticulous version control, promoting collaboration through shared repositories and effective code merge strategies.
- Proficiently employed debugging tools to troubleshoot software issues and used frameworks such as JUnit to validate code functionality and increased the code coverage from 50% to 85%.
- Developed RESTful APIs and wrote optimised SQL queries that reduced API response time by 60%.
- Took initiative to restructure the authorization workflow, notably enhancing the auto-approval rate by up to 50% by resolving a complex EPA problem in the authorization flow.
- Spearheaded a redesign of our notification system, consolidating 10000 separate emails into one aggregated message, enhancing system performance, reducing overhead costs, and improving user experience.
- Collaborated in a team to automate the CI/CD pipeline, enabling seamless integration and deployment immediately upon code push.

## PROJECTS

**SMART PEN**

*Android, Java, Electronics, Bluetooth*

- Engineered a smart pen integrated with an accelerometer to capture handwritten gestures.
- Utilized Arduino for data processing and Bluetooth for data transmission to Android devices.
- The companion mobile app converts handwriting into digital documents.
- Secured 1st Prize at the 3rd IEEE International Conference on Computer, Communication, and Signal Processing (ICCCSP2019) and received project funding from the Siva Nadar Foundation's Bright Idea program.

**Hand Gesture based Mouse Pointer To go touch less**

*Computer Vision, OpenCV, Python, tkinter, PyAutoGUI*

- Developed a gesture-controlled virtual mouse using Python, OpenCV, and PyAutoGUI, which recognizes specific hand movements through image processing techniques such as skin detection, segmentation, and histogram capturing.
- Mapped distinct hand gestures, identified by spaces between fingers, to corresponding mouse actions, enabling a touch-free interface interaction.
- The gesture-controlled virtual mouse boosts accessibility for those with physical disabilities and minimizes direct touch interactions on public screens, promoting both inclusivity and hygiene.

## ACHIVEMENTS

- MERIT SCHOLARSHIP HOLDER at SSN College of Engineering (2017-2021)
- STAR PERFORMER at Optum Global Solutions Quarter 3 2022
- BRAVO AWARD at Optum Global Solutions Quarter 4 2022