Venkata Sai Srija Nandipati

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OBJECTIVE

I am a passionate software engineering student based in Sweden's Karlskrona, currently studying Software Engineering, M.Sc. at Blekinge Tekniska Högskola. My technical interests span generative AI, cloud computing, and advanced theoretical frameworks in functional programming, enabling me to bridge the realms of applied Software Engineering, Computer Science theory, and Mathematics. Alongside my technical pursuits, I have a strong dedication to teaching and volunteering.

EXPERIENCE

Software Intern · Mar 2023 - Aug 2023
AD Info com Systems · *Nagpur, India*

· Designed and deployed 5+ core platform features using JavaScript, Vue.js, and Node.js, implementing RESTful APIs for efficient inter-service communication.
· Built modules for autoloading materials, student search, and billing to streamline operations for 600+ users.

Student Representative & Mentor · Sep 2022 - Jun 2023
Jawaharlal Nehru Technological University · *Kakinada, India*

· Mentored freshman students along with Student Ambassador by providing academic support and helping them integrate into college life through personalized guidance.
· Voluntarily supervised and coordinated various events at JNTUK, enhancing leadership, communication, and organizational abilities.

AI Intern · Aug 2022 - Jan 2023
Pan-tech Pro labs · *Chennai, India*

· Contributed to the development of an AI healthcare system, leveraging NLP for symptom analysis and medical suggestions, and optimized pipelines to improve efficiency by 12.4%.
· Collaborated in an Agile/Scrum team, using JIRA and Bitbucket to streamline project management and version control.
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EDUCATION

M.Sc Software Engineering, Blekinge Institute of Technology, Sweden · *Present*
B.Sc Computer Science and Engineering, Blekinge Institute of Technology, Sweden · *Aug 2023 - Jun 2024*
B.Tech Computer Science and Engineering, Blekinge Institute of Technology, Sweden · *Jan 2021 - Jul 2023*
Completed first 3 years of the Exchange Program in JNTUK, Kakinada, India

SKILLS

Programming Languages: Python, C++
Web & Frameworks: HTML, CSS, JavaScript, Node.js, React
Databases: SQL, PostgreSQL, MongoDB
Tools & Platforms: Git, GitHub, Jenkins, Jira, AWS
Testing & APIs: Selenium, Pytest, RESTful APIs
Languages: English(Professional Proficiency), Swedish(Elementary Proficiency)

PROJECTS

Covid-19 Spread Simulation: Modeled COVID-19 spread with Python using demographic and time-series data for simulation and prediction, providing insights that informed public health strategies in 3 local communities.

Dr. Online: Developed a Kotlin-based health management app for appointment booking, medical tracking, and symptom remedies.

Mental Fitness Tracker on AWS: Built a highly available web app for mental fitness tracking using Amazon ECS, Auto Scaling, and an Application Load Balancer. Achieved 99.9% uptime by deploying across multiple availability zones.

Pinterest Automation Testing: Automated Pinterest web UI using Python, Selenium, and EyeAutomate; structured test cases with Pytest principles.

Quote Generator (CI/CD + TDD): Built a React app with CI/CD using GitHub Actions, Vitest, and Netlify; followed TDD practices and YAML workflow automation.

Target Detection with Acconeer A121 Radar: Used MATLAB for radar signal processing, implemented CFAR algorithms, and generated range-Doppler maps.

Smart Aquarium Automation System: Created an Arduino-based IoT solution with sensor integration, automated feeders/pumps, and ThingSpeak cloud dashboard.

View more projects here: (GitHub)

CERTIFICATIONS

Test Automation Professional Certificate (LambdaTest)
Agile Project Management Professional Certificate (Atlassian)
Java Foundations(JetBrains)
Software Engineering (Goldman Sachs - Forage)
Docker Professional Certificate (Docker)
DevOps Professional Certificate (PagerDuty & LinkedIn)
Azure AI Essentials Professional Certificate (Microsoft)

ACTIVITIES & LEADERSHIP

Community Service Project: Zilla Parishad Hign School
Led an awareness project on health and hygiene for students in rural areas, addressing sanitation challenges.
Volunteered to teach yoga and wellness practices to middle school students, promoting physical and mental well-being.

Research Collaboration: Kakinada Municipal Commissioner
Collaborated on a sanitation project under Dr. J. V. R. Murthy; developed a Python-based optimization algorithm to solve worker allocation problems and received formal appreciation.

Technical Committee Head: Zeitgeist Tech Club, JNTUK Kakinada
Led the student tech club with 150+ active members; organized workshops, hackathons, and coding events to foster a culture of innovation and technical excellence on campus.