

KONETI SAIRAM AVINASH

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PROFESSIONAL SUMMARY

B.Tech Computer Science graduate (2022–2026) and **Certified Pega Senior System Architect (PCSSA v25) & System Architect (PCSA v24.2)** with proven capabilities in enterprise workflow automation, full-stack web engineering, and AI application development. Experienced in building scalable RESTful architectures using Next.js, Node.js, Express, MongoDB Atlas, and Google Gemini API, alongside deep learning diagnostics. Strong foundations in SDLC, Case Management, and cloud infrastructure with practical deployment experience on AWS, Vercel, and Render.

CERTIFICATIONS

• Certified Pega Senior System Architect (PCSSA v25)	Pegasystems
• Certified Pega System Architect (PCSA v24.2)	Pegasystems
• AWS Academy Cloud Architecting Graduate	AWS Academy
• Fortinet Certified Associate Cybersecurity	Fortinet
• Professional Skills for the Workplace Specialization	UC Davis (Coursera)

TECHNICAL SKILLS

Pega Platform:	Case Management, Data Modeling, Data Pages (D_Pages), UI Rules (Sections/Harness), Flow Actions, SLAs, Decision Rules (Tables/Trees), Validation, Routing & Work Queues
Full-Stack & AI:	Next.js, React, Node.js, Express.js, REST APIs, Google Gemini API, Tailwind CSS, Streamlit
Languages & DB:	Java, Python, C, C++, SQL, MongoDB Atlas (Mongoose ODM)
Cloud & Tools:	AWS (EC2, ELB, Auto Scaling, Security Groups, VPC), Git, GitHub, VS Code, Linux, Vercel, Render

KEY PROJECTS

FlavorForge AI: Full-Stack Generative AI Platform <i>Next.js, Express, MongoDB Atlas, Gemini API</i>	Full-Stack / AI Project
- Architected an AI-powered SaaS web application integrating Google Gemini API to generate context-aware food product descriptions, brand positioning matrices, and marketing copy with tone customization. - Engineered secure Express.js REST APIs featuring JWT role-based session verification, brute-force rate limiting, and document persistence using MongoDB Atlas with Mongoose schema modeling. - Constructed a responsive glassmorphism UI in Next.js & Tailwind CSS with React Error Boundary, debounced search filtering, and live cloud deployment on Vercel and Render.	
Student Registration Application <i>Pega Platform (PCSA / PCSSA Architecture)</i>	Pega Enterprise Case
- Designed an end-to-end multi-stage Case Lifecycle for student onboarding, course enrollment, and document verification. - Engineered custom Data Pages (D_Pages), UI sections, Flow Actions, and Service Level Agreements (SLAs) for automated escalation. - Implemented declarative rules, decision tables, and validation rules to enforce academic business constraints and automated routing.	
EffNet-SVM: Diabetic Retinopathy Detection <i>Python, Streamlit, Scikit-learn, CNN</i>	AI / ML Project
- Developed an AI medical diagnostic pipeline leveraging EfficientNetV2-S for deep feature extraction and SVM for retinal classification. - Integrated Explainable AI (XAI) using Grad-CAM and LIME heatmaps to provide clinical transparency and interpretability for doctors. - Deployed an interactive, real-time web application using Streamlit for seamless fundus image upload and instantaneous diagnosis.	

INDUSTRY TRAINING & VIRTUAL INTERNSHIPS

AWS Cloud Virtual Internship <i>AWS Academy – EduSkills</i>	Oct 2024 – Dec 2024
- Designed and deployed scalable cloud infrastructure on AWS using EC2 (Linux/Windows), Elastic Load Balancers, and Auto Scaling. - Configured VPC security groups, launch templates, and automated cloud provisioning adhering to AWS Well-Architected frameworks.	
Network Security Virtual Internship <i>Fortinet – EduSkills</i>	Jul 2024 – Sep 2024
Gained hands-on exposure to firewall configurations, enterprise threat monitoring, and network vulnerability analysis.	

EDUCATION

Bachelor of Technology (B.Tech) in Computer Science and Engineering	2022 – 2026
<i>Avanathi Institute of Engineering and Technology, Vizianagaram</i>	CGPA: 7.49