SRINIVASA PRADEEP S

 LinkedIn LeetCode GitHub

EDUCATION

PSG Institute of Technology and Applied Research   Sep 2021 – May 2025
Bachelor of Engineering in Computer Science   *CGPA: 8.40/10.0*

- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Networks, Database Management Systems, Software Engineering

SPIC Nagar Higher Secondary School   Jun 2019 – May 2021
Higher Secondary Certificate - Computer Science   *Percentage: 95.53%*

PROFESSIONAL EXPERIENCE

Amazon Development Center India   Jan 2025 – Jun 2025
Software Development Engineer Intern   *Chennai, India*

- Engineered **Java to C++** framework migration across **12 microservices**, achieving **25% performance improvement** and **40% memory optimization** for systems handling **2M+ daily requests**
- Collaborated with cross-functional teams to redesign system architecture, reducing production downtime by **15%** through enhanced fault tolerance mechanisms
- Developed automated testing frameworks achieving **99.5% system reliability** for mission-critical applications

SAP Labs India   Apr 2023 – May 2023
Software Developer Intern   *Bengaluru, India*

- Built cloud-native invoice processing platform using **React.js and AWS**, scaling to process **1,200+ documents daily** with **97.8% accuracy** for enterprise clients
- Implemented RESTful APIs with **Spring Boot and MongoDB**, delivering **sub-200ms response times** while supporting **500+ concurrent users**
- Optimized database queries with Redis caching, boosting performance by **35%** and accelerating deployment cycles by **82%** through CI/CD automation

TECHNICAL PROJECTS

MedQuery - Natural Language Database Interface | *C++, Python, LLaMA, PostgreSQL*   Nov 2024

- Designed **NLP-to-SQL** translation system for Electronic Health Records, achieving **83.6% accuracy** across **2,500+ complex medical queries** serving **500+ healthcare professionals**
- Built distributed C++ backend with custom query optimization, reducing average response time by **60%** for real-time clinical decision support

ClaimAI - Intelligent Expense Management | *Python, Flask, React.js, MongoDB, RAG*   Aug 2024

- Delivered ML-powered expense processing system using **RAG architecture and Phi-3 model**, handling **10,000+ claims** with **95.2% classification accuracy**
- Built scalable Flask API with ChromaDB vector database, supporting **200+ concurrent users** with consistent **150ms response times**

Smart Shopping Advisor - Browser Extension | *JavaScript, Chrome APIs, Gemini AI*   Mar 2024

- Launched AI-powered shopping assistant with **1,000+ daily active users**, integrating Gemini AI for personalized recommendations across **50+ e-commerce platforms**
- Enhanced API efficiency through intelligent caching, reducing operational costs by **40%** while maintaining **sub-second response times**

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, HTML5, SQL, Bash (**3+ years experience**)
Frameworks & Technologies: Spring Boot, React.js, Node.js, Flask, Express.js, RESTful APIs, Chrome Extensions
Databases & Cloud: PostgreSQL, MongoDB, MySQL, Redis, AWS (EC2, Lambda, RDS, S3), ChromaDB
Development Tools: Git, Docker, Jenkins, CI/CD, IntelliJ IDEA, VS Code, Postman
Specializations: Machine Learning, Natural Language Processing, System Architecture, Performance Optimization

ACHIEVEMENTS & CERTIFICATIONS

- Solved **450+ algorithmic problems** on LeetCode with **Top 16.6%** ranking in Weekly Programming Contests

- **PCAP Python Programming** and **CCNA Network Associate** certifications from Cisco Systems

- **NSS Coordinator** (2023-24) and **School Pupil Leader** (2019), showcasing leadership and teamwork capabilities