

GARESHMA NAGALAPATTI

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SUMMARY

Software Engineer with 3.5+ years of experience in backend development, API integration, and workflow automation using **Java**, **Spring Boot**, **RESTful APIs**, and **Oracle SQL**. Proven track record of building scalable enterprise systems across **Oracle Cloud** and **PeopleSoft** platforms. Proficient in **Git**, **Agile methodologies**, and cross-functional collaboration. Currently contributing to a bilingual math learning app as a **Flutter** Developer Intern, demonstrating versatility and user-centered design, and actively seeking backend-focused **Software Engineer or SDE roles** to deliver high-performance, reliable software solutions.

EDUCATION

Master of Science in Computer Science - Santa Clara University, Santa Clara, California	Jun 2026 Expected
Coursework: Machine Learning, Advanced Operating Systems, Data Structures and Algorithms	CGPA: 3.892/4
Bachelor of Technology in Information Technology - SSN College of Engineering, Chennai, India	Aug 2014 - Apr 2018
Coursework: Object Oriented Analysis and Design, Computer Architecture, Database Management System	CGPA: 7.85/10

SKILLS

Languages: Java, Python, SQL, JavaScript, C/C++, PeopleCode, HTML, CSS, .NET
Frameworks & Technologies: Spring Boot, RESTful APIs, Microservices, Flask, Angular, PS Query, PocketSphinx
Tools & Platforms: Git, Visual Studio, VS Code, Postman, Oracle SQL Developer, DBeaver, PeopleSoft App Designer, ServiceNow
Mobile Development: Flutter (Dart), Firebase

INTERNSHIP

Software Developer Intern - Frugal Innovation Hub, Santa Clara, California	Apr 2025 - Present
<ul style="list-style-type: none">Designing and developing a cross-platform math learning app using Flutter with real-time bilingual support to improve accessibility and comprehension.Implementing modular, interactive components such as quizzes and visual tutorials, following clean architecture and reusable UI patterns.Optimizing performance for offline access and low-spec devices, in alignment with frugal innovation and scalability principles. Link	

WORK EXPERIENCE

Software Engineer - Elppa Tech Solutions, Chennai, India	May 2023 - Aug 2024
<ul style="list-style-type: none">Architected a scalable backend system using Java and Application Engine to enhance HR modules like Compensation and TalentCoach.Directed data synchronization between PeopleSoft and Oracle Cloud, boosting payroll accuracy to 92% and streamlining system operations.Engineered RESTful APIs to automate HR data transmission, reducing processing time from 2 hours to 4 minutes while achieving 98% data accuracy.	
Software Engineer - MultiTech EDA Systems, Bangalore, India	Feb 2023 - Apr 2023
<ul style="list-style-type: none">Accelerated website load performance by up to 40% through strategic front-end refactoring and optimization.Enhanced user experience by resolving rendering bottlenecks and improving overall UI responsiveness.	
Software Engineer - Aspire Systems, Chennai, India	Jun 2018 - Oct 2019
<ul style="list-style-type: none">Built backend logic for ImpacShield, securing payroll data for 10,000+ users and ensuring regulatory compliance.Built an Outlook-style email and calendar system with Office 365 API integration, improving scheduling efficiency by 35%. LinkCreated a real-time image synchronization PoC for web and mobile browsers, enabling instant cross-device access.Developed a lightweight face recognition PoC by integrating facial recognition APIs, achieving 90%+ accuracy in controlled test scenarios. Link	

RESEARCH EXPERIENCE AND PUBLICATION

Research Assistant - SSN College of Engineering, Chennai, India	Aug 2017 - Jun 2018
Interactive Audio Indexing and Speech Recognition Navigation Tool Under the guidance of Dr. P. Vasuki <ul style="list-style-type: none">Developed an audio navigation tool using PocketSphinx speech recognition, enabling timestamp-based search within tutoring videos.Enhanced speech-to-text accuracy and query response speed by applying NLP and audio signal processing techniques to optimize PocketSphinx.	
Publication: Gareshma N, Dr. P. Vasuki, Preethi S. Interactive Audio Indexing and Speech Recognition-based Navigation Assist Tool for Tutoring Videos, ICSCDS, April 2022.	

PROJECTS

Fake Job Posting Detection System - Link <i>Machine Learning NLP XGBoost One-Class SVM GloVe Embeddings</i> <ul style="list-style-type: none">Developed a scalable ML system to classify job postings as real or fake, mitigating risks like identity theft and fraud on job platforms.Achieved 97.5% accuracy and 0.845 F1-score using XGBoost, with GloVe embeddings for semantic analysis of job descriptions.Applied One-Class SVM for anomaly detection and contributed to improving platform safety by flagging suspicious listings.
Library Management System <i>HTML PHP Oracle SQL</i> <ul style="list-style-type: none">Developed a web-based system for managing book inventory, lending workflows, and secure user roles for librarians and members.Optimized SQL queries and designed a responsive UI to improve system performance and user experience.
Conference Management System <i>Java Hibernate MySQL</i> <ul style="list-style-type: none">Built a platform for paper submission, peer review, registration, and session scheduling using object-oriented design principles.Integrated role-based access control and automated email notifications to streamline communication and event operations.

ACHIEVEMENTS AND LEADERSHIP

- Presented a research poster at IEEE ICCSP-2017, SSN College of Engineering.
- Honored with the **Best Student Award** and recognized for top scores in Mathematics and Sanskrit (2013 - 2014).
- Served as **Joint Secretary** (2016 - 2017) and **Publicity Head** (2017 - 2018) of the IT Association, leading academic and outreach initiatives.