

Pratik Desai

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OBJECTIVE

Software Engineer with 1+ years of experience in Full Stack Web Development using technologies like Java, Spring Boot, Flask, React.js, and Next.js **seeking full-time Software Engineer roles.**

EDUCATION

Texas A&M University <i>Master of Computer Science (GPA: 4.0)</i>	College Station, TX Aug 2023 – May 2025
College of Engineering Pune <i>Bachelor of Technology (B. Tech) in Computer Engineering (CGPA: 8.56/10)</i>	Pune, India Aug 2018 – May 2022

EXPERIENCE

Student Research Assistant <i>Texas A&M University</i>	Jun 2024 – Present College Station, TX
<ul style="list-style-type: none">Leading the development of the OliviaKIDS website using Next.js, React.js, TypeScript, Tailwind CSS, Zod, and Zustand, resulting in effective coordination of a cross-functional team and a robust educational platform.Building a scalable backend infrastructure with Prisma and PostgreSQL, resulting in efficient data management and streamlined data handling.Enhancing development and deployment consistency by leveraging Docker for containerization, resulting in seamless deployment processes and reliable development environments.	
Software Engineer <i>Nuance Communications - A Microsoft Company</i>	Jul 2022 – Jul 2023 Pune, India
<ul style="list-style-type: none">Led the development and optimization of a key application feature using Java, JavaScript, and PostgreSQL, resulting in a 20% improvement in user experience.Implemented microservices architecture, leveraging cloud technologies, reducing deployment time by 16% and enhancing system reliability.Spearheaded the design and implementation of a feature flag service, utilizing Spring Boot, PostgreSQL, and cloud infrastructure, enabling faster feature rollouts and improved application scalability.	
Software Engineering Intern <i>Nuance Communications - A Microsoft Company</i>	Jun 2021 – Aug 2021 Pune, India
<ul style="list-style-type: none">Optimized data storage efficiency, achieving a 30% reduction in usage through strategic optimization methods using PostgreSQL on cloud infrastructure.Led internationalization efforts, enabling support for multiple languages and expanding application reach using cloud-based solutions.Migrated legacy components for Microsoft, resulting in a 23% reduction in system latency.	

PROJECTS

StackSense <i>Flask, React, BERT, TensorFlow, LLM, Generative AI</i>
<ul style="list-style-type: none">Developed a fine-tuned BERT tag prediction model, boosting F1-score from 0.548 to 0.567, and implemented KNN collaborative filtering with Universal Sentence Encoder for faster, more accurate tag suggestions and question recommendations on StackOverflow.
WhatsNxt <i>JavaScript, Node.js, React.js, SQL, REST API, Python, Flask, Tensorflow, Machine Learning</i>
<ul style="list-style-type: none">Engineered multifunctional Chrome extension compatible across 5+ social media platforms, elevating user engagement.Delivered features such as personalized auto-completion, auto-response, word correction, prediction, and emotion analysis with an average model accuracy of 93%.Engineered an auto-calendar link generation feature by improving an existing library, enhancing user productivity.Led a cross-functional team in the development and successful implementation of the project, demonstrating strong communication and organizational abilities while ensuring alignment with project objectives and timelines.
Employee Management System <i>Spring Boot, RestfulAPI, PostgreSQL, Spring Cloud, React.js, Node.js</i>

- Designed and developed core **Microservices** for Employee Management System, encompassing Employee, Payroll, and Attendance functionalities.
- Implemented a notification service utilizing **Twilio** for messaging and **RabbitMQ** for message queuing.

Course Evaluation Summarizer | *Ruby on Rails, ChatGPT API, React.js, PostgreSQL*

- Automated and accelerated analysis of customer evaluation forms through a web application.
- Achieved key milestones: user-friendly interface, **Google OAuth** login, and **PostgreSQL** database setup.
- Enhanced system with AI-driven processing, improved testing, and stability for efficient analysis tool.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, Ruby on Rails, C, C++, SQL, HTML/CSS

Frameworks: Spring Boot, Spring Cloud, Spring MVC, React, Next.js, Node.js, React Redux, Flask, FastAPI, Tailwind, Zustand

Databases: MySQL, NoSQL, MongoDB, PostgreSQL, Redis, Firebase

Developer Tools: Git, GitLab, GitHub, Maven, Gradle, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, PowerShell

Other: AWS, Azure