Neha Manghnani

(979)-344-3913 | nehamanghnani015@gmail.com | linkedin.com/in/neha-manghnani | github.com/nehamanghnani01

PROFESSIONAL SUMMARY

Software Engineer with professional experience in Product Development, Software Engineering, Agile Methodologies and SDLC. Collaborated with engineering & management teams to deliver high-quality features across mobile and web platforms. Looking for Software Engineering roles to apply my expertise in building scalable and secure software systems.

EDUCATION

- **Texas A&M University, College Station** — Texas, USA
  Masters in Computer Science — Aug 2023 - May 2025
- **Birla Institute of Technology and Science, Pilani** — Dubai, UAE
  Bachelor of Engineering in Computer Science — Aug 2016 - Jul 2020

SKILLS

Languages - Java, Kotlin, PHP, JavaScript, TypeScript, SQL, NoSQL, Python, HTML, CSS, C/C++, Ruby, XML, JSON
Software & Tools - MongoDB, MySQL Workbench, MS SQL Server, GIT, Postman, Android Studio, CouchDB, Docker
Frameworks & Libraries - React, Laravel, RxJava, Smack (XMPP), Node.js, Jetpack, Ollama, PyTorch, Langchain
Design Patterns - MVVM, MVC, SOLID, OOP, Data Structures & Algorithms, Async Programming, Pub/Sub Pattern

WORK EXPERIENCE

- **Texas A&M University - Technology Services** — College Station, Texas, USA
  Software Application Developer — Jun 2025 - Present
  - Engineered an enterprise solution to enable 254 Texas counties to securely manage and input plan details for TIDC.
  - Led the development of the Family Protection Representation ID forms, actively iterating based on client feedback.
  - Analyzed the legacy system database and implemented scripts for seamless data migration to the current system.

- **Computer Science Department, TEES, TAMU** — College Station, Texas, USA
  Software Engineering - Student Technician — Sep 2023 - Mar 2025
  - Built Chrome Extension to mask sensitive data when interacting with websites & remote models, enhancing privacy.
  - Implemented Python scripts to evaluate model performance for on-device deployment, ensuring best LLM selection.
  - Developed an AI system to detect & auto-fix code vulnerabilities, securing **Top 7** at the AIxCC DARPA Challenge.

- **Deskfactors Inc** *(Murphi.ai, formerly BlueSecures)* — Bangalore, India
  Senior Software Engineer — Mar 2023 - Jul 2023
  - Led the Android platform development supervising 5 engineers, sprint planning, code reviews and impact analysis.
  - Redesigned and incorporated MVVM architecture in the codebase which enhanced code maintenance and stability.
  - Led development of helpdesk integrated with Whatsapp/SMS which promoted faster onboarding of potential clients.

  Software Engineer — Oct 2020 - Feb 2023
  - Implemented features - text & media messages, reply, forward, share, delete message in the BlueSecures platform.
  - Engineered core business features and enhanced platform security with encryption at rest and encryption at transit.
  - Enhanced the stability of the client-side XMPP connection for the instant messaging feature by handling stream errors, reconnections, and adding API support which led to improved product reliability and client confidence.
  - Developed WhatsApp and Text integration with the app which increased user adoption and interest by 3 times.

- **Interplast Co. Ltd, Group Harwal** — Sharjah, UAE
  Software Developer Intern — Jan 2020 - Jun 2020
  - Designed 55 webpages for the IT Service Helpdesk to file employee grievances following ITIL framework and using HTML, CSS, JavaScript, PHP, Bootstrap, Ajax which reduced manual IT queries by 50%.
  - Streamlined employee reimbursements using MS PowerPlatform. Mobile platform with PowerApps and automated workflows using PowerAutomate & Sharepoint which reduced load on the HR team for manual settlements by 60%.

PROJECTS

- **InvestWise - Real-Estate Analytics Dashboard** — Feb 2025 - May 2025
  - Developed a React platform for real-estate analysis, featuring dynamic visualizations using Chart.JS and Fast API.
  - Enhanced user experience with interactive UI and integrated LLaMa 70B LLM-powered chatbot via Groq API.

- **Contract Management System for Brazos Valley Council of Govt.** — Aug 2023 - Dec 2023
  - Worked on legacy CMS project and conducted biweekly sprints to showcase progress and take feedback from client.
  - Modifications to contract & addition of email invites to increase contract revenue using Ruby on Rails & Javascript.