MANISHA MALHAR RAO DESHPANDE

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EDUCATION

Arizona State University   **August 2022 - May 2024**
Master's, Software Engineering   *GPA: 3.85*

PES University, Bangalore   **June 2015 - July 2019**
Bachelor's, Computer Science   *GPA: 9.03*

SKILLS

Back-end: Java (J2E, JEE), Python, C, Spring Boot, MySQL, OracleDB, MongoDB, Maven, Hibernate, JPA, Docker, REST APIs
Front-end: HTML, CSS, JavaScript, TypeScript, Angular, AngularJS, Node.js, JSON, XML, React, MVC Framework
Testing: JUnit, Mockito, Splunk, unit testing, component testing, integration testing, logging & debugging (log4j2)
Tools: Git, JIRA (Ticketing), Confluence (Documentation), Oracle SQL Developer, UI/UX Design (Invision and Axure)
Practices: agile (scrum), software development life cycle (SDLC), API Design, continuous integration & continuous deployment (CI/CD), vulnerability fix (security), test-driven development (TDD), design patterns, data structures & algorithms

PROFESSIONAL EXPERIENCE

Akamai Technologies   **Bangalore, KA, India**
Software Engineer II   *July 2021 - July 2022*
- Architected RESTful APIs and database management for Product Management (PM) 2.0, migrating 200K rows of product data and enabling seamless CRUD functionality for the product operations team.
- Orchestrated two defect-free code releases through meticulous planning and execution, ensuring 100% on-time delivery and flawless production integration.
- Identified and mitigated security vulnerabilities in backend systems, strengthening operational integrity and user trust.
- Mentored 3 new hires through personalized knowledge-transfer sessions, reducing onboarding time by 40%.
- Conducted 150+ code reviews, ensuring code quality and adherence to best practices.

Akamai Technologies   **Bangalore, KA, India**
Software Engineer I   *July 2019 - June 2021*
- Enhanced global customer experience by building user interfaces using HTML, Angular, and TypeScript for the Product Catalog system, leading to a 15% increase in user engagement.
- Automated context-specific product price calculations by developing a complex API for the Digital Price List, eliminating manual CSVs and saving 100+ hours of labor monthly.
- Spearheaded the Human-Readable Excel feature on the Product Catalog system, providing 500+ customers with effortless access to downloadable structured pricing data.

Akamai Technologies   **Bangalore, KA, India**
Software Intern   *January 2019 - April 2019*
- Implemented enterprise-grade REST APIs (Java, Spring Boot, Docker) and crafted SQL for an Oracle database, enhancing a new, scalable product management system.
- Revamped UI screens using HTML, TypeScript, Angular, and NodeJS, improving user experience and system functionality, resulting in a 10% increase in user task completion rates.
- Facilitated knowledge sharing by introducing 15+ Confluence documents covering design specs, key technologies, and processes.

PROJECTS & OUTSIDE EXPERIENCE

Game Night Recommender   **Arizona, USA**
React, Express.js, HTML/CSS   *February 2024 - April 2024*
- Developed a novel personalized game recommendation system integrating Discord and Steam APIs, utilizing user preferences and social connections to suggest multiplayer games for group play.

Snake Programming Language   **Arizona, USA**
Python, Prolog, Bash Scripting   *February 2023 - May 2023*
- Designed a novel Python-inspired language with a tokenizer, evaluator, parser, and semantic analyzer, ensuring cross-platform compatibility on MacOS and Windows.
- *Link to project*

Fetal Monitoring   **Bangalore, KA, India**
PyAudio, Keras, Pandas, Arduino   *May 2017 - May 2019*
- Engineered a patented cost-effective hardware prototype with audio processing for third-trimester fetal monitoring, achieving a 98% cost reduction compared to traditional ultrasound.
- *Link to project*