Tejaswi Pemmasani

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Education

Northern Arizona University, Flagstaff, AZ   August 2023 – May 2025
Master of Science in Computer Software Engineering   GPA: 3.82/4.00

- Key Coursework: Web Design and User Experience, Object-Oriented Design, Network Structures and Cloud Computing, Data Structures and Algorithms, AI/ML, Software Engineering, Computer Programming, Competitive Coding, System Design

Skills

- Languages: HTML, CSS, JavaScript, TypeScript, Java, Python, SQL, C, C++, C#, Linux
- Frameworks/Tools: ReactJS, NodeJS, REST API, .Net Core WebAPI, MySQL, Git, MongoDB, Postgres, GraphQL, SpringBoot, Redis
- Cloud Technologies: AWS, DynamoDB, Azure, Terraform, Docker, Kubernetes, Kafka

Work Experience

HeadStarter AI, FlagStaff, AZ   June 2024 – September 2024
Software Engineering Fellowship

- Developed a pantry management app using **Next.js, Material UI, and Firebase**, assisting users in tracking inventory and managing expiration date alerts, reducing food wastage.
- Developed a Flashcard SaaS website using **React.js, Pinecone, and OpenAI, and** Stripe which helps the students to learn the interesting topics with fun.
- Developed an AI chatbot application using **Next.js**, and **Open AI** which helps the customers to resolve the queries instantly.

Infosys, Telangana, India   June 2022 – August 2023
Digital Specialist Engineer

- Developed reusable **React components** for a product recommendation and optimized **NPM packages** which improved the component reusability and also reduced redundant API calls by 30%.
- Designed **Java-based microservices** with **Spring Boot** and **Hibernate** for an e-commerce platform which reduced response time by 30% during the peak sales event.
- Integrated **Kafka** with **Node.js** for order processing and inventory updates, communicating with **Java (Spring Boot)** backend, which improved order fulfillment speed and reduced inventory sync latency by 25%.
- Developed **unit tests** using JUnit and Mockito, achieving 95% test coverage and ensuring robust and reliable order processing.
- Mapped and optimized 20,000+ **MySQL** customer records using **Hibernate ORM** by enhancing API integration to improve the date retrieval efficiency in real-time.
- Deployed and managed containerized microservices with **Kubernetes**, optimizing system performance during peak traffic to ensure application availability and scalability.
- Handled version control and source code management using **Git and GitHub**, utilizing branching strategies and pull requests to facilitate smooth collaboration and ensure code quality in development.

Infosys, Telangana, India   August 2021 - June 2022
Software Engineering Intern

- Developed various **RESTful APIs** using **ASP .NET Core**, and also optimizing API performance by implementing caching, error handling, and data validation.
- Designed a migration model for Azure resources like Azure Servicebus and CosmosDB to migrate authentication to a password-less mechanism, enhancing security and user experience.

Certifications

- Certified Microsoft - Azure Developer Associate (AZ-204)
- Infosys Certified DOTNET Core Web API Developer
- Infosys Certified ASP .NET Core MVC Developer
- Infosys Certified Microsoft SQL Server Developer.