

Pragati Dilip Gunai

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EDUCATION

Master's in computer information & science | University of Michigan, MI

01/2023 - 04/2024

Bachelor's in computer engineering | University of Mumbai, India

05/2015 - 06/2018

WORK EXPERIENCE

Software Developer | University of Michigan

Dearborn, USA | 01/2024 – 12/2025

- Developed websites and AI-powered web applications for university research projects using UI/UX design principles.
- Optimized front-end and back-end systems with Angular, React, HTML, CSS, JavaScript, PHP, ASP.NET/C# and Python.
- Integrated research data with MySQL, Web APIs/ RESTful API, and university systems while ensuring security compliance.
- Deployed and fine-tuned Large Language Models (LLMs) for document summarization, classification, and data extraction.
- Built CI/CD pipelines (GitHub Actions, Jenkins) for DevOps Operation and conducted unit and integration testing using Mocha, Jest or React Testing Library.
- Containerized applications and AI models with Docker for scalable, consistent cloud deployments on AWS / Azure.
- Proactively troubleshoot system issues, performed debugging, and applied effective problem-solving to optimize performance.
- Delivered technical documentation, deployment guides, and hands-on support to research and development teams, ensuring consistent implementation aligned with TDD practices.

Full Stack Developer | Paktolus Solution LLC

Mumbai, India | 11/2021 - 11/2022

- Implemented software solutions for an insurance and financial project using the ASP.NET/C# and MVC framework.
- Improved UI/UX using Angular, React, JavaScript, HTML, CSS and RESTful APIs with JSON for efficient data handling.
- Optimized application performance and reduced costs by integrating AWS services (Lambda, API Gateway, EC2, S3) and developing ETL pipelines for centralized insurance related data and real-time analytics.
- Developed user interfaces following the Ruby on Rails framework, utilizing MVC architecture and SDLC best practices for maintainable and scalable code. Additionally, worked on microservices to enhance modularity and flexibility.
- Optimized database operations with stored procedures and Entity Framework, reducing query execution time by 50% and eliminating direct MySQL/ADO.NET queries.
- Resolved code issues, improved validation, and managed version control with PowerShell and SVN/GitHub.
- Streamlined deployment with Agile methodologies, TDD and CI/CD pipelines, cutting downtime and deployment time by 70% using Azure DevOps.

Software Developer | Jain Investment Pvt. Ltd.

Mumbai, India | 08/2018 - 11/2021

- Created interactive dashboards using AngularJS, JavaScript, PHP, Python, Web API, HTML, CSS, and SASS, delivering real-time portfolio insights with enhanced UI/UX.
- Built and secured RESTful APIs with C#/ASP.NET and Spring Boot and integrated SQL Entity Framework for efficient database management and querying, optimizing financial data retrieval, processing, and integration.
- Automated reporting and analytics using AWS cloud services, increasing efficiency in client asset tracking and investment performance evaluation.
- Established comprehensive validation on both client and server sides, bolstering security measures and reducing validation errors by 40%, thus enhancing user data protection.
- Implemented CI/CD pipelines and integrated DevOps practices to streamline code deployment software delivery.

UNIVERSITY PROJECTS

Image Caption Generation

04/2024

- Innovated a deep learning model merging convolutional neural networks (CNNs) and recurrent neural networks (RNNs) that generated image captions using attention mechanisms while evaluating performance both qualitatively and quantitatively through metrics like BLEU score after training on the Flickr 8k dataset.

Credit Card Fraud System

12/2023

- Implemented a Credit Card Fraud Detection System using PHP, C#, JavaScript, and SQL, applying UI/UX principles for intuitive design, integrating real-time fraud detection logic, and deploying it on AWS for scalable and secure cloud performance.

TECHNICAL SKILLS

Programming Languages: C#, ASP.NET Core, VB.Net, Angular, React, Java, C/C++, PHP, Python, RESTful API, WordPress.

Web Technologies: HTML5, JavaScript, TypeScript, CSS, XML, jQuery, JSON, Ajax, Bootstrap, Web API, MVC, SDLC, Agile.

Databases & Frameworks: MySQL, NoSQL, XAMPP, Oracle, Unix/Linux, ADO.NET, IIS, SSRS, WCF, PowerShell.

Tools & Platforms: Visual Studio, SVN, GitHub, TFS, AWS/Azure, GCP, Microsoft Office Suite, Excel, VPN, CI/CD, Jira.

CERTIFICATIONS

- Accredited with certifications in HTML, CSS, UI/UX, and React from Duke Institute.
- Certification of Participation – WordPress Development Workshop.
- Recognized for publishing a project in an IEEE research paper.