Pranay Ghuge

pranayghuge@gmail.com | LinkedIn | GitHub | 774-526-3374 | Dartmouth, MA 02747

PROFESSIONAL SUMMARY

Software Engineer with 3 years of experience building high-performance web applications and data solutions. Specialized in .NET, React, and cloud technologies with a track record of reducing costs and improving system efficiency. Two-time ACE Award recipient, currently pursuing Master's in Computer Science at UMass Dartmouth.

EDUCATION

Master's in Computer Science   May 2026 | Dartmouth, USA
University Of Massachusetts Dartmouth (GPA 3.67 / 4)

Bachelor's of Technology - Computer & Communication   May 2021 | Jaipur, India
Manipal University Jaipur (CGPA 3.12 / 4)

SKILLS

Languages: C#, C++, Python, JavaScript (ES6+), TypeScript, SQL
Frontend: React.js, HTML5, CSS3, SCSS, Material-UI, TailwindCSS
Backend: ASP.NET Core, ASP.NET MVC, REST APIs
Cloud Services: Microsoft Azure, AWS (Lambda, S3, CloudWatch, QuickSight), Firebase
Databases: Microsoft SQL Server, MySQL, Oracle Database, MongoDB
DevOps & Tools: Git, GitHub, Azure DevOps, Jira, Confluence, Postman
Game Development: Unity, Unreal Engine

PROFESSIONAL EXPERIENCE

Software Engineering Analyst   Jun 2022 – Jul 2024 | Bengaluru, India
Accenture

CloudSync

- Developed a high-performance data transfer application with .NET, React.js, and Material UI, achieving an 85% improvement in transfer times and $100,000 annual storage cost savings
- Integrated RESTful APIs with parallel processing techniques, optimizing large data transfers and minimizing operational costs
- Created an intuitive UI with real-time tracking, streamlining user experience and reducing manual intervention

RMS DMT

- Developed a secure web application with React and .NET for multi-terabyte database transfers, ensuring compliance and faster processing
- Designed a React-based file explorer with intuitive navigation, reducing manual operations by 40%
- Built a robust testing suite with 90% coverage, lowering production incidents by 20% and eliminating data corruption

Software Engineer Associate   May 2021 – Jun 2022 | Bengaluru, India
Accenture

PreprocessorWeb

- Developed an integrated web application with .NET and React, reducing maintenance costs and streamlining operations for multiple client applications
- Redesigned the UI using React, leading to a 30% faster information retrieval and improved usability
- Conducted extensive testing, resolving integration issues and delivering a smooth user experience

Associate Consultant Intern   Jan 2021 – Apr 2021 | Hyderabad, India
Capgemini

- Led a team of five in completing the final project within the stipulated timeline, using Agile methodologies, task delegation, and architectural design
- Created a miniature replica of the E-Trade system as the internship's final project
- Designed a scalable back-end using N-Tier architecture and technologies such as .NET and MySQL, ensuring seamless data retrieval and robust system performance

Big Data Intern   Feb 2020 – Jun 2020 | Jaipur, India
Celebal Technologies
- Created an ML model for forecasting sales using Python, achieving 80% accuracy
- Data Visualization using Power BI, creating interactive dashboards and reports that displayed key insights and trends for decision making

PROJECTS

GPU Architecture Performance Analysis   Nov 2024 | Dartmouth, USA
Umass Dartmouth
Tech Stack: Python, NVIDIA CUDA, NVIDIA API, Unity Engine, Unreal Engine, DirectX 12, RenderDoc
- Developed a Python-based monitoring system to evaluate GPU performance across NVIDIA architectures, tracking metrics like TFLOPS and memory bandwidth
- Conducted benchmarking of DirectX 12 API on RTX 3000/4000 series GPUs, improving understanding of architectural impacts on performance
- Utilized NVIDIA NSight and RenderDoc for deep-dive analysis of graphics API calls, memory access patterns, and shader program execution efficiency

Real-time Weather Analytics Platform ⬀   Nov 2024 | Dartmouth, USA
Umass Dartmouth
Tech Stack: Python, AWS (Lambda, S3, CloudWatch, QuickSight), REST APIs
- Built a serverless pipeline on AWS Lambda for ingesting hourly weather data across 14 regions, enabling automated, real-time analysis of weather patterns
- Structured S3 storage and CSV processing for efficient querying, reducing data retrieval time by 30%
- Designed a real-time weather dashboard with automated alerts and interactive visualizations, used to inform responses to weather changes across climate zones

Shadow-interiors Website ⬀   Apr 2022 | Pune, India
Freelancing
- Desinged and Developed Shadow-interiors, a website for an interior design company, using React and Firebase
- Crafted a clean and modern design that increased the online presence and brand awareness of the company
- Deployed the website to Firebase Hosting, enhancing the performance, security, and scalability of the website

AWARDS

ACE Awards   May 2023 | Jun 2022 | Bangalore, India
Accenture
- Recognized for outstanding contributions to the RMS DMT and PreprocessorWeb projects, demonstrating exceptional technical skill and project execution

CERTIFICATES

Certified SAFe® 5 Practitioner   Dec 2022 | Online
Scaled Agile, Inc.
- Expertise in Agile methodology, including scaling Agile principles in large project environments

DevSecOps   Mar 2021 | Online
Cloud Guru
- Understanding in Security as Code, CI/CD pipeline security, automated security testing methodologies, and infrastructure scanning

The Complete JavaScript Course 2023: From Zero to Expert! ⬀   Jul 2020 | Online
Udemy
- Acquired expertise in modern JavaScript, including ES6+ features, OOP, asynchronous programming, and building real-world projects