

Pranay Ghuge

pranayghuge@gmail.com | LinkedIn: pranay-ghuge | Github: Pranay0205 | pranayghuge.com | +1 (774) 526-3374

Dartmouth, MA, 02747

EDUCATION

Master's in Computer Science,

May 2026 | Dartmouth, USA

University Of Massachusetts Dartmouth (GPA 3.67 / 4)

Coursework: Algorithms and Complexity, Software Systems Design, Advanced Machine Learning

Bachelor's of Technology - Computer & Communication,

May 2021 | Jaipur, India

Manipal University Jaipur (CGPA 3.12 / 4)

Coursework: Relational Database Managment, Operating System, Web Technologies, Data Structure, OOPS

PROFESSIONAL EXPERIENCE

Software Engineering Analyst, Accenture

Jun 2022 – Jul 2024 | Bengaluru, India

Project: CloudSync

- Built a .NET (C#) & React (JS) app, cutting data transfer times by 85% and saving \$100,000 annually in storage costs
- Optimized large data transfers with REST APIs and parallel processing, reducing operational expenses
- Designed a real-time tracking UI with Material UI, improving user experience and efficiency

Project: RMS DMT

- Developed a React (JS) & .NET (C#) data migration tool handling multi-terabyte database transfers
- Created a React-based file explorer, reducing manual tasks by 40%
- Achieved 90% test coverage, cutting production incidents by 20%

Software Engineer Associate, Accenture

May 2021 – Jun 2022 | Bengaluru, India

Project: PreprocessorWeb

- Merged multiple client apps into a single .NET and React web app, reducing maintenance costs
- Redesigned the UI with React, improving information retrieval by 30% and enhancing usability
- Conducted testing to resolve integration issues, ensuring a smooth user experience

Associate Consultant Intern, Capgemini

Jan 2021 – Apr 2021 | Hyderabad, India

- Led a team of five to complete the final project on time using Agile methodologies and task delegation
- Built a replica of the E-Trade system as the internship's final project
- Designed a scalable back-end with N-Tier architecture using .NET and MySQL for efficient data retrieval and performance

PROJECTS

Personal Portfolio, Personal Project

Oct 2024 – Nov 2024 | Dartmouth, USA

Tech Stack: React.js, TypeScript, Tailwind CSS, Framer Motion, Firebase

- Built a modern portfolio website using React, TypeScript and Framer Motion for smooth animations
- Implemented responsive design with Tailwind CSS and custom interactive UI elements
- Created reusable components with dynamic content management for easy maintenance

GPU Architecture Analysis, Umass Dartmouth

Sep 2024 – Nov 2024 | Dartmouth, USA

Tech Stack: Python, CUDA, NVIDIA Nsight (Graphics, Compute), Unity, Unreal Engine

- Developed Python scripts to monitor GPU performance across NVIDIA architectures
- Benchmarked CUDA on RTX 3000/4000 GPUs, analyzing performance with Nsight Compute
- Used Nsight Graphics for API call analysis and shader efficiency

Real-time Weather Analytics Platform, Umass Dartmouth

Sep 2024 – Nov 2024 | Dartmouth, USA

Tech Stack: Python, AWS (Lambda, S3, CloudWatch, QuickSight), REST APIs

- Created a serverless AWS Lambda pipeline for real-time weather analysis across 14 regions
- Optimized S3 storage and CSV processing, cutting data retrieval time by 30%
- Built an interactive weather dashboard with alerts for climate zone monitoring

Ocular Eye Disease Detection Model, Umass Dartmouth

Sep 2024 – Nov 2024 | Dartmouth, USA

Tech Stack: Python, TensorFlow, OpenCV, Scikit-learn, Pandas, NumPy, EfficientNetB0, Jupyter Lab

- Developed an ML model with TensorFlow to detect 8 ocular diseases from 5000+ retinal images
- Achieved 86% accuracy using EfficientNetB0 and transfer learning
- Improved feature extraction with K-means clustering and PCA

SKILLS

Languages & Frameworks: JavaScript/TypeScript, Python, React.js, C#, C++, HTML5/CSS3, TailwindCSS, Material UI

Database & Cloud: MongoDB, OracleDB, MySQL, AWS, Azure

AWARDS

ACE Awards, Accenture

May 2023 | Jun 2022 | Bangalore, India

- Recognized for outstanding contributions to the RMS DMT and PreprocessorWeb projects, demonstrating exceptional technical skill and project execution