Rishiraj Dhar

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EDUCATION

Northeastern University, Boston, MA — Sep 2024 – Present
Khoury College of Computer Sciences — Expected graduation: Aug 2027
Candidate for a Master of Science in Computer Science — GPA: 4.0/4.0

Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India — May 2022
Bachelor of Technology in Mechanical Engineering, GPA: 8.75/10.0

TECHNICAL KNOWLEDGE

Languages:	JavaScript, TypeScript, Python, Java, C
Web Technologies:	React, Vite, Jest, Testing Library, Mock Service Worker

WORK EXPERIENCE

PricewaterhouseCoopers(PwC), Bangalore, India — Jul 2022 – Jul 2024
Associate – Technology Consulting

- Developed and maintained frontend codebase for a large-scale web application with features such as role-based authorization, task scheduling & assignment, and questionnaire template creation.
- Designed unit testing framework by integrating third-party libraries - Jest, React Testing Library, and Mock Service Worker - and creating custom utility functions.
- Technology Stack used: Vite, TypeScript, React.

PROJECTS

Study and Modelling of Active Suspension Systems — Aug 2021 – May 2022

- Designed an active control system to improve disturbance response using a second-order filter.
- Modeled vertical dynamics of automobiles using a two degree-of-freedom quarter car model.
- Performed numerical simulation in MATLAB and Simulink for inputs such as sinusoidal input disturbance, step input disturbance, and pulse input disturbance.
- Enhanced representation and applicability by implementing physical modeling techniques using Simscape.

LEADERSHIP AND VOLUNTEER EXPERIENCE

Goal Setting Volunteering Workshop — Jun 2023 – Jul 2023
Team Everest NGO

- Mentored a junior year college student for a month in the techniques and processes of goal setting.
- Part of the Team Everest 'I am the Change' scholarship program that sponsors and supports parent-less, single-parented, and economically weak college students.

Student Regional Chair – Asia-Pacific Region — Jul 2021 – Jun 2022
ASME Student Section Enterprise Group

- Led the Student Regional Team (Asia-Pacific) to support and uplift the technical and all-round development of students from across the region.
- Contributed to the ideation and development of initiatives for student sections of the American Society of Mechanical Engineers (ASME) across the globe.

Steering Head — Jan 2021 – Apr 2021
Team AutomoBEings, IIEST Shibpur

- Mentored the steering sub-team to acquire an in-depth understanding of automotive steering systems.
- Led the ideation and design of mechanical components for the custom steering system in Autodesk Fusion 360.