

# Dhivyesh Prithiviraj

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## EDUCATION

### University of Texas at Dallas

Dallas, TX

Bachelor of Science in Computer Engineering

Class of 2027

- Related Coursework: Digital Systems, Introduction to circuits, Computer Science 1, Linear Algebra, Discrete Math

## EXPERIENCE

### Logistics Coordinator

January 2025 – Present

HackUTD

Dallas, TX

- Coordinated logistics, food, and participant experience for HackUTD, North America's largest hackathon.
- Liaised with sponsors, vendors, and volunteers to ensure smooth operations and timely deliveries.
- Volunteered at local hackathons, including HackAxxess and WeHack, assisting with event organization.

### Data Analytics Intern

January 2024 – June 2024

Accenture

Remote

- Analyzed a Social Buzz dataset with 10,000+ daily entries, using NumPy and Pandas to clean data, identify trends, and rank the top 5 content categories based on engagement.
- Synthesized complex datasets and presented insights using advanced data visualization techniques, enabling Accenture to drive 15+ strategic decisions based on 20+ key project insights.

### Communications/Marketing Chairperson & Student Ambassador

October 2022 – November 2023

Mark Cuban Foundation

Dallas, TX

- Designed and implemented a tool utilizing Microsoft Azure and advanced Computer Vision techniques to accurately detect calorie content in food items through image recognition.
- Led as one of 15 ambassadors to shape AI camp curricula, provide strategic feedback, and mentor 1500+ students through hands-on AI bootcamps.
- Spearheaded marketing initiatives, creating targeted campaigns and engaging content to increase awareness and participation in AI programs, resulting in a 20% growth in student enrollment.

## PROJECTS & RESEARCH

### Design Engineer, Powertrain

August 2024 – Present

UTD Society of Automotive Engineers

Dallas, TX

- Conducted advanced CAD modeling and Finite Element Analysis (FEA) in SolidWorks to identify and mitigate 10+ potential failure points in powertrain components.
- Optimized thermal management and enhanced cooling efficiency by designing and refining a custom radiator fan.
- Developed and presented a prototype oil catch can design, evaluating its theoretical efficiency and impact on engine performance.

### Undergraduate Researcher — Reliability and Design Automation Lab

January 2025 – Present

University of Texas at Dallas

Dallas, TX

- Worked as an undergraduate researcher applying Physics-Informed Machine Learning (PIML) and Predictive Modeling to enhance engineering applications using Python, TensorFlow, and PyTorch.
- Led the development of machine learning models that integrate fundamental laws like Navier-Stokes equations, improving accuracy in fluid dynamics and battery health prediction.
- Assisted Ph.D students in utilizing Conformal Prediction Frameworks to quantify uncertainty in predictive models, ensuring reliable decision-making in applications such as battery state of health (SOH) estimation.

### SeatSwap | React, Node.js, TypeScript, Express, American Airlines API, Expo Go, AWS

November 2024

- Collaborated with a team of 3 on developing a flight seat-swapping app to enable real-time seat availability.
- Integrated American Airlines API with RESTful services using Express for seamless seat swaps.
- Designed an MVP with an intuitive UI, secure JWT authentication, seat preference filters, and a request management system, deployed on AWS.

## SKILLS

Programming Languages: HTML, CSS, Java, React, JavaScript, NextJS, Python, C++, Node.js, React Native

Tools and Frameworks: NumPy, Matplotlib, Pandas, Adobe Photoshop, Adobe After Effects, Expo Go, Figma