

# CHANNAVEERA

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## EDUCATION

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**Northeastern University**, Boston, MA

Sep 2023 - Expected May 2025

Master of Science in Computer Software Engineering GPA: 3.47/4.0

Courses: Web development, Object-oriented programming, Program Structure & Algorithms, Database Management

**Nitte Meenakshi Institute of Technology**, Bangalore, India

May 2016 - Jun 2019

Bachelor of Engineering in Mechanical Engineering GPA: 3.33/4.0

## TECHNICAL SKILLS

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**Languages:** C/C++, C#, Java, Python, VBA, JavaScript, HTML, CSS, TypeScript

**Databases:** Microsoft SQL Server, MySQL, MongoDB, PostgreSQL

**Frameworks:** STL, Spring Boot, Component Application Architecture (CAA) APIs, Node.js, .NET, React.js

**Technologies:** Git, PLM, 3DExperience (DELMIA v6, CATIA v6), CATIA v5, BOM, SQL Server Management Studio, SolidWorks, CAD Design, OpenAI, Webservices, SVN, Git, CI/CD, Unit testing

## PROFESSIONAL EXPERIENCE

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**Software Engineer** — L&T Technology Services, Hyderabad, India

May 2022 - Aug 2023

- Developed an automated Hydraulic Pressure Drop Calculator for CATIA v5 using C++ and CAA APIs, enhancing system performance by 20% and eliminating manual intervention
- Spearheaded the Static Gun Model Extension for 3DExperience Delmia, reducing robot arm movements in spot welding by 60% and optimizing lean manufacturing processes
- Developed a C#.NET application for efficient data migration and weld assignment analysis in Delmia V6, improving data accuracy by 25% and reducing processing time by 40%

**Software Engineer** — KPIT Technologies Limited, Bangalore, India

Aug 2019 - May 2022

- As a user experience and test engineer for Project Joint, optimized automotive lamp joints by 70% using C++ and CAA APIs through iterative design and simulation processes. Reduced joint count by 40% and implemented cost-effective snap solutions, achieving a 20% cost reduction
- Coordinated a team in developing innovative UI/UX solutions and implementing User Defined Features for automotive lamps, significantly reducing joint count by 35%, and achieved a CSAT rating of 5.0 through user-centered design principles
- Developed a Drawing automation feature for CATIA v5 using VB.NET, reducing view creation time by 40% by automating repetitive tasks and streamlining the drawing process
- Implemented Weight Reduction command with CAA for CATIA v5 part workbench for BIW, balancing weight with material strength. This resulted in a 15% weight reduction without compromising structural integrity
- Developed a Clearance & Creepage Tool with CATIA v5 part workbench, enhancing electrical safety in battery packages by predicting and analyzing current flow paths, reducing potential safety incidents by 25%, and applied UX principles and design thinking methodologies to improve usability and user satisfaction

## ACADEMIC PROJECTS

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**Local Compass Travel Application:** Developed a Spring Boot application "Local Compass" using OpenAI APIs for AI-driven itinerary planning, emphasized a layered architecture with Spring MVC for enhanced user experience & integrated user feedback and rating systems utilizing OpenAI's NLP.

**Pet Adoption Web Application:** React-based web app with Node.js, featuring CRUD operations, authentication, and pet matching algorithms, implemented bcrypt password hashing, JWT for authentication, and Node Mailer for notifications, designed dynamic shopping cart system for pet products using MongoDB.