

# Pakshal Mahavir Ranawat

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## Education

### University of Texas at Arlington

Arlington, Texas

Master of Science in Computer Science, GPA: 4.0/4.0

08/2023 – 05/2025

**Coursework:** Analysis of Algorithms, Software Engineering, Data Mining, Artificial Intelligence, Machine Learning.

### University of Mumbai

Mumbai, India

Bachelor of Engineering in Computer Engineering, GPA: 9.78/10.0

08/2018 – 05/2022

**Coursework:** Data Structures, Operating System, Java, Python, Database Management System, Computer Networks.



## Skills

**Languages & Databases:** C, C++, C#, Python, Java, JavaScript, TypeScript, MySQL, MongoDB, PostgreSQL.

**Frameworks & Libraries:** JUnit, React, Node.js, Express.js, Next.js, Bootstrap, Tailwind CSS, Flutter, Selenium, Playwright.

**Cloud services & Developer Tools:** Git, GitLab, GitHub, Unity, XAMPP, Linux, Figma, Postman, Canva, AWS, Vercel, Docker.



## Experience

### Link Group

Mumbai, India

Software Developer in Test

07/2022 – 07/2023

- Developed automated test suites for UI and microservices testing using JUnit, Java, Selenium, C#, SpecFlow, and Cucumber, improving test clarity, collaboration, and bug detection by 50%.
- Strategized Jenkins for CI/CD automation, streamlining the testing process and generating weekly reports.
- Created an employee Time Portal using Power Apps, Power Automate improving the time tracking efficiency by 30%.

### Shantighar Social Service Society

Mumbai, India

Web Development Intern

10/2021 – 12/2021

- Designed a web application using HTML, CSS and JavaScript for battered women and children in crisis.
- Utilized best practices to ensure cross-browser compatibility and performance, improving responsiveness.

### YWCA of Bombay

Mumbai, India

App Development Intern

11/2020 – 10/2021

- Developed a mobile application using Flutter and Dart framework. Used Firebase to manage user inputted data.
- Enhanced user experience by 40% and Optimized API performance by 30% compared to the previous app.

### DBIT Placement Cell

Mumbai, India

Web Development Intern

03/2021 – 05/2021

- Developed a responsive website using HTML, CSS, and JavaScript, improving page speed by 80%.
- Executed SEO strategies to boost website visibility and Google search rankings.



## Projects

### Learning Management System (LMS)

02/2025 – 05/2025

- Created a full-stack Learning Management System using Next.js and Clerk for role-based authentication, enabling teachers to upload content and students to enroll. Integrated AWS S3 and CloudFront with pre-signed URLs for secure video delivery and implemented Stripe for multi-step payment processing. The backend was built with Express.js, Dockerized, and deployed to AWS Lambda via API Gateway, with DynamoDB handling data storage.

### Breast Cancer Histopathology Image Analysis

01/2025 – 04/2025

- Developed a dual deep learning pipeline using U-Net++ and HRNet-W18 for semantic segmentation and lymphocyte detection in breast cancer histopathology images, achieving high Dice scores on the TIGER dataset.

### Study Nest

08/2024 – 11/2024

- Built a React Native app using TypeScript integrated with Firebase, optimizing study group formation and management, improving academic performance and peer-network building.

### Event Hunt

08/2024 – 10/2024

- Developed a React-based event booking platform with MongoDB, Express.js, and Node.js, featuring event search, real-time updates, and PayPal payment integration, increasing event registration efficiency by 25%.

### ASTA

08/2021 – 04/2022

- Engineered a pipeline model that summarizes a pdf into Devnagari text and converts it into an audio file.
- Implemented it using NLP for text translation and RNN model for text-to-audio translation.



## Achievements and Certifications

Scrum Master Certificate

Best UI Design – HACKUTA 2023 (Hackathon)

Best Concept Game (Holesync) – TEKNACK 2019–2020

Technical Excellence Student for Academic Year (2018–2022)

Meta Front-End Developer