

# Amal Sajan Manjapallil

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## SUMMARY

Third-year B.E. Information Technology student with hands-on experience in full-stack MERN applications and machine learning projects. Developed web solutions handling user authentication, database management, and responsive design. Seeking internship opportunities to contribute to software development projects and gain industry experience.

## EDUCATION

### PES Modern College of Engineering, SPPU University

*Bachelor of Engineering – Information Technology*

Expected 2027

Pune, Maharashtra

- **CGPA:** 9.17 / 10
- **Relevant Coursework:** Data Structures & Algorithms, Database Management Systems, Object-Oriented Programming, Computer Networks, Operating Systems

## PROJECTS

### Patient Appointment & Management Portal | MongoDB, Express.js, React.js, Node.js, JWT, Cloudinary

- Developed a **full-stack appointment booking platform** with role-based access control for Admin and Patient roles using JWT authentication
- Integrated **Cloudinary** for image uploads and **MongoDB Atlas** for scalable cloud database management
- Orchestrated **RESTful APIs** to manage appointments, users, and doctor records
- Collaborated in a 2-member team following modular development practices and Git-based version control

### URL Shortener Web Application | Node.js, Express.js, MongoDB, EJS, JWT, MVC Architecture

- Engineered a Node.js application following **MVC architecture** to generate, manage, and redirect short URLs
- Integrated **cookie-based JWT authentication** with middleware-protected routes for secure access
- Constructed shortId generation logic and tracked **visit analytics** using MongoDB with Mongoose ODM

### Portfolio Website | React.js, Tailwind CSS, JavaScript

- Developed a responsive personal portfolio featuring a **custom animated space background** using React hooks
- Programmatically generated dynamic star and meteor animations based on screen size for an interactive UI
- Engineered **reusable components** and optimized layout for seamless performance across all devices

### Todo App | React.js, Tailwind CSS, JavaScript

- Created a responsive task management app using React.js with **state management** and reusable components for dynamic CRUD operations
- Designed a **mobile-first UI** with Tailwind CSS, ensuring consistent usability across desktop and mobile

## SKILLS

**Frontend :** HTML5, CSS3, JavaScript, React.js, Tailwind CSS, Bootstrap, EJS Templating

**Backend :** Node.js, Express.js, REST API Development, MVC Architecture, Middleware Design

**Database & Cloud :** MongoDB, MongoDB Atlas, MySQL, Cloudinary

**Auth & Security :** JWT, Role-Based Access Control (RBAC), Protected Routes, Cookie-based Auth

**Machine Learning :** Python, Scikit-learn, Pandas, NumPy, Streamlit

**Languages :** JavaScript, Python, C++

**Tools :** Git, GitHub, Postman, Figma, VS Code