# ASWIN KRISHNA
## Full Stack Developer

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## Summary

A self-taught MERN stack developer with a strong passion for coding and exploring new technologies. I aim to be a valuable team player in an innovative AI-focused and forward-thinking organization that is dedicated to building cutting-edge solutions for the next generation. Committed to lifelong learning and embracing new challenges, seeking continuous growth and improvement.

## Skills

- **Frontend Technologies:** HTML, CSS, JavaScript, React.js, Redux, React-Router-Dom, Tailwind CSS, Bootstrap
- **Backend Technologies:** Node.js, Express.js, REST APIs, Socket.io
- **Database:** MongoDB, Mongoose
- **Cloud & Hosting:** AWS EC2, Firebase, Nginx, Cloudflare, Zoho Catalyst
- **Tools & Platforms:** Git, Github, Postman
- **Concepts:** MVC Architecture, Authentication & Authorization, Lazy Loading
- **IDEs:** Visual Studio Code, Eclipse

## Projects

**TECHTRIBE** – **Mentorship & Communication Platform**                Live | GitHub | Demo

**Tech-Stack:** React.js, Node.js, Express, MongoDB, Razorpay, AWS EC2, AWS SES, Nginx, PM2, Cloudflare, Socket.io

- **Infrastructure & Security**: Hosted on AWS EC2 and secured with Cloudflare.
- **Lazy Loading**: Improved initial load performance by 14% using lazy loading.
- **Light House Score:** Boosting Lighthouse score from 66% to 80% through Lazy Loading.
- **User Authentication**: Implemented secure login/signup functionality using JWT authentication.
- **Real-time Chat**: Developed real-time chat functionality using Socket.io for seamless messaging.
- **Payment Integration**: Integrated Razorpay for secure and reliable online transactions.
- **Email Notifications**: Automated user email notifications using AWS SES.
- **Modular Design:** Designed modular architecture following Single Responsibility Principle for maintainability and scalability
- **Responsive UI**: Built fully responsive UI optimized for all devices using Tailwind CSS.
- **Shimmer UI**: Enhanced user experience with Shimmer UI skeleton loaders.
- **Scalability & Performance**: Optimized servers with Nginx & PM2 and Cloudflare integration.
- **State Management**: Managed global state efficiently in frontend applications using Redux.
- **RESTful APIs**: Developed efficient and secure REST APIs using Express.
- **API Testing**: Tested and validated REST APIs for performance, security, and reliability using Postman.

## Education

**Jain University**                                                      2021  -  2024
Bachelor of Commerce                                                Bangalore , Karnataka
CGPA: 8.4

**Sree Krishna Highner Secondary School**                               Palakkad , Kerala
Computer Science
CGPA: 7.5

## Certification

- Namaste Javascript                                                     Certificate
- MongoDB Developer's Toolkit                                            Certificate
- Introduction to Generative AI                                         Badge
- Postman API Fundamentals Student Expert                               Badge