Megha Sudhakaran Nair

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PROFILE

Results-driven Software Engineer with a growth mindset and 2+ years of experience building scalable, responsive web applications. Skilled in UI development, API integration, and performance optimization. Known for strong communication, adaptability, decision-making, and leadership in cross-functional teams. Collaborative and solution-oriented, with a proven ability to translate complex requirements into impactful user experiences.

EDUCATION

Master of Science, Computer Science 08/2022 – 05/2024 | GPA-3.83
Arizona State University
Coursework: Human Computer Interaction, Software Verification Validation and Testing, Data Mining, Statistical Machine Learning

Bachelor of Technology, Computer Science 08/2017 – 04/2021 | CGPA-3.7
Cochin University of Science and Technology, Kerala
Coursework: Object Oriented Software Design, Operating System, Data Structure and Algorithms, Artificial Intelligence

SKILLS

Technical skills
HTML5, CSS3, Bootstrap, JavaScript, React.js, Angular, NextJS, Node.js, GraphQL, JSON Web Token, TypeScript, Python, C++, Java, C, MySQL, NoSQL, RESTful APIs, trpc APIs, Prisma ORM, Git/GitHub, BitBucket, Jupyter Notebook, Anaconda, Visual Studio, Pandas, Numpy, TensorFlow, Matplotlib, OpenCV, PyTorch, AWS (S3, EC2, API Gateway), Azure, Cypress

Tools and Methodologies
Agile methodologies, CI/CD, Microservice Architecture, Version Control, API Integration, Analytics, Project Management, Windows, macOS

PROFESSIONAL EXPERIENCE

Founding Software Developer 06/2024 – present | Scottsdale, United States
BLUSVN Technologies
- **Led a team of 3 developers** to design and develop the company's official website and app using **Next.js**, **Material UI**, and **Capacitor**, collaborating in **Figma** to deliver a responsive, accessible, and brand-aligned experience across web and mobile platforms.
- Developed UI and integrated **tRPC** APIs for core modules such as product management, order management, and chat integration.
- Enhanced authentication by resolving SSO issues and implementing biometric authentication with **Capacitor Biometrics**, improving security, streamlining access, and enabling faster logins.
- Optimized **LCP** by implementing lazy-loading and asset preloading, boosting **Lighthouse** scores by **15%** and improving load times.
- Implemented secure private and public routing with **next/navigation**, improving platform security, structured navigation, and seamless user access across pages.

Software Engineer Intern 08/2023 – 05/2024 | Tempe, Arizona, United States
Interbiz Consulting
- Collaborated with clients to gather requirements for an IoT platform, delivering solutions that enhanced satisfaction.
- Optimized the **heartbeat schema** to reduce request-response frequency, improving cost efficiency and streamlining device communication.
- Implemented an aggregator schema in Cosmos DB, reducing UI fetch time by 30% and enhancing system performance.
- Developed a responsive UI in **Angular**, implementing features like scheduling, user management, and device monitoring.
- Integrated dynamic forms and time zone management for scheduling, ensuring accurate device operations and an intuitive user experience.
- Built a feature to request, store, and retrieve device log files using **blob storage**, enabling efficient downloads reducing redundant requests.

PROJECTS

Agriculture Yield Prediction App 03/2020 – 03/2021
- Designed a user-friendly app for farmers to access and analyze agricultural data, allowing them to make informed decisions for crop planning and management.
- Processed and analyzed large-scale agricultural datasets, enabling farmers to make data-driven decisions for crop planning and management, resulting in a 30% increase in crop yield.
- Implemented advanced machine learning algorithms, including random forest, linear regression, and LSTM, achieving a 15% increase in accuracy for agricultural yield prediction.
- Optimized models using PCA, clustering, correlation matrix, and hyperparameter tuning for best results.
- Conducted comprehensive testing and debugging, ensuring the app's functionality and performance across 99% of device configurations and platforms.

WeatherView 12/2023 – present
- Utilized third party API and Angular for fetching and displaying real-time weather data, enhancing user engagement with accurate updates.
- Implemented dynamic graphs with Angular and charting libraries to visualize temperature, humidity, and pressure forecasts, improving user experience through interactive data visualization.
- Leveraged Angular Material for developing intuitive UI components for real-time weather updates, forecasts, and data visualization across various devices.
- Developed a secure login/signup system with Node.js, Express.js and MongoDB, ensuring user data privacy and personalized access to the weather dashboard.

ORGANIZATIONS

Google Women Tech Makers Ambassadors
- As an active member of this community, provided mentorship and support to women, fostering collaboration and empowerment.