# Megha Sudhakaran Nair

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## **PROFILE**

**Results-driven Software Engineer** with a growth mindset and 3+ 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: Data Mining, Statistical Machine Learning, Artificial Intelligence, Human Computer Interaction, Software Verification Validation and Testing

#### **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

## **SKILLS**

#### **Technical skills**

HTML5, CSS3, Bootstrap, JavaScript, React.js, Angular, NextJS, Node.js, GraphQL, JSON Web Token, TypeScript, Python, C++, 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, Postman, Swagger

#### **Tools and Methodologies**

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

#### PROFESSIONAL EXPERIENCE

# **Software Developer**

**BLUSVN Technologies** 

06/2024 - Present | Scottsdale, United States

- Led a 3-developer team in the end-to-end architecture and development of the company's official website and app using Next.js, Material UI, and Capacitor, leveraging Figma for design and delivering a responsive and accessible experience across web and mobile platforms.
- Designed and implemented a scalable data model with Prisma and built robust tRPC API endpoints for core modules, which resulted in a significant improvement in data retrieval time and enhanced data integrity for personalized user experiences.
- Ensured API reliability and robustness by implementing comprehensive unit and integration tests with Jest, which improved code quality and reduced production bugs by 40%.
- Optimized core application performance by implementing lazy-loading, asset preloading, and a full-stack pagination solution for extensive order records, boosting Lighthouse scores by 15% and significantly improving initial load times.
- Enhanced authentication by resolving SSO issues and implementing biometric authentication with Capacitor Biometrics, improving security and streamlining user access.
- Implemented secure private and public routing with next/navigation to improve platform security, establish structured navigation, and ensure seamless user access.
- Automated weekly product pricing updates using a Python web scraper deployed to an AWS Lambda function, which ensured data accuracy
  and streamlined the data collection workflow.

### **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** *ℰ* 12/2023 – 05/2024

- 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.