Sachin George Thomas

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Professional Summary

Senior Full-Stack Engineer and Technical Lead with 9+ years of experience architecting scalable web applications and APIs. Leverages deep JavaScript (ES6+) and TypeScript expertise to deliver framework-agnostic frontend solutions using Angular, React, and Flutter. Proven track record leading cross-functional teams to build enterprise-grade platforms with optimized UI/UX, microservices architecture, and CI/CD pipelines. Excels in Agile environments, mentoring teams, and driving innovation across automotive and enterprise sectors. Contributed to product delivery at CrowdANALYTIX, which was later acquired by Macnica Inc.

Professional Experience

Sr. Full-Stack Engineer

Latcha & Associates Inc. - Farmington Hills, MI, USA **[Dec, 2020 - Present]**

Projects

- **MIQ Real-Time Communication:** Led development of the MIQ Real-Time Communication feature for Volkswagen integrating live Car-Net telemetry data using Node.js and Angular, delivering a real-time dashboard that increased engagement by 35% for 1.2M+ users. Deployed and managed the system on an on-premise Linux server per client requirements.
- **Marketing IQ Platform:** Optimized the MIQ backend architecture for Volkswagen by implementing bulk writes, SQL connection pooling, and Gzip-compressed asset delivery, cutting campaign processing time by 50% and supporting 4M+ unique users.
- **Platform Migration:** Refactored legacy Angular/Node.js codebase and REST APIs, driving UI/UX enhancements that improved task completion by 20%.

Key Responsibilities

- Designed and architected scalable full-stack features using Angular/React, Node.js, and SQL databases.
- Coordinated with Product Owners, Designers, and Marketing stakeholders to gather requirements and deliver feature-aligned UI/UX.
- Owned full SDLC: development, testing, deployment, and monitoring of cloud/on-premise applications.
- Developed and maintained CI/CD pipelines using GitHub Actions, Jenkins, and Docker.
- Ensured code quality and maintainability via pull request reviews, unit testing with Jest, and component-level design reviews.
- Managed production support, debugging critical issues in real-time and deploying hotfixes with minimal downtime.

Software Engineer

CrowdANALYTIX - Bangalore, India **[Oct, 2015 - Dec, 2020]**

Projects

- **Belongings Check (Care Center Management Platform):** Streamlined check-in processes using Angular, React, and Flutter (iOS/Android), reducing customer wait times by 40%. Replaced Angular PWA/WebRTC prototype with a Flutter-based mobile app for real-time video processing.
- **dataX Platform (Enterprise Data Intelligence Suite):** Designed a responsive Angular UI for managing machine learning workflows, supporting bulk image processing and real-time analytics. Implemented RESTful APIs with Node.js and MongoDB, improving data retrieval efficiency by 30% for enterprise clients.
- **dataX Sync (GS1 Certification Validator):** Ensured seamless, compliant certification workflows by orchestrating a robust Angular UI with strict client and server-side validations. Implemented complex GS1 specifications, integrated Stripe payments to unlock a new revenue stream, and processed thousands of product certifications with optimal performance.
- **Catalog Repository:** Enabled data science team to support client Walmart by architecting a distributed Node.js/Express.js backend to query and analyze 10M+ product records of different categories in sub-second time, using Redis queuing, MongoDB, and an Angular interface with zero downtime and concurrent access.

Key Responsibilities

- Contributed to product delivery and client success as one of the first engineers, supporting growth that led to Macnica's 41.8% equity acquisition of CrowdANALYTIX.
- Built Angular, React, and Flutter apps for client Unimat Japan's care services check-in platform
- Built GS1 certification validator to enforce product data standardization for global retailers
- Developed REST APIs with Node.js, Express, and MongoDB for scalable data access
- Migrated SVN to GitLab and set up centralized GitOps on Google Cloud Platform
- Mentored 3 frontend engineers in Angular and modular UI best practices
- Optimized backend with Redis, Node.js, and MongoDB for sub-second queries
- Wrote regex-based attribute models to extract metadata at scale
- Wrote unit tests and conducted code reviews to maintain code quality
- Collaborated with product and design teams to align features with business needs

Systems Administrator - (Remote)
S&J Aviations   **[August, 2014 - August, 2015]**

Projects

- **Network Administration & Web Design** Strengthened network security and workplace productivity by deploying remote network monitoring and DNS-level content filtering, and established the companyś online presence through designing and launching its website, while maintaining reliable IT infrastructure and systems administration.

Key Responsibilities

- Deployed DNS filtering and monitoring tools to secure internal networks
- Maintained IT systems and resolved daily infrastructure issues
- Built and launched the company's first website using HTML, CSS, and jQuery
- Provided tech support and improved team productivity via IT automation

Creative & Technical Contributions

Web Designer/Photographer
Karunya University (EWYL Program) - Coimbatore, India   **[October, 2011 - May, 2013]**

- **Earn While Your Learn Scheme** Elevated the university's online and visual identity by designing and launching the Admissions website with HTML/CSS, producing brochures and digital assets in Photoshop/Illustrator, and co-ordinating student photography sessions for web content.

Technical Skills

- **Programming Languages**: JavaScript (ES6+), TypeScript, Python, Dart, Go (learning)
- **Frameworks & Libraries**: Angular, React, Node.js, Express.js, Next.js, Flutter, FastAPI, Flask, TypeORM, Sequelize
- **Databases**: PostgreSQL, MSSQL, MySQL, MongoDB, Redis
- **Cloud Platform**: AWS, Google Cloud, Azure
- **Devops & Tools**: Docker, Jenkins, Git, GitHub Actions, GitLab CI/CD, NGINX, Webpack, Postman, Datadog, Linux
- **Design Tools**: Figma, Adobe XD, Adobe Photoshop, Adobe Illustrator, Balsamiq Mockups
- **Testing Frameworks**: Jest, Mocha, Cypress
- **Architecture & Patterns**: RESTful APIs, GraphQL, Microservices, MVC, MVVM, SOLID Principles

Education

Bachelor of Technology - Information Technology
Karunya University, India   **[2008 - 2014]**