

SUDHARSHAN MADHAVAN

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EDUCATION

CALIFORNIA STATE UNIVERSITY – Fullerton, California, USA.

August 2024 – Jan 2026

Master's in Accelerated Software Engineering

- **Relevant Coursework** - Object Oriented Programming, Web development, Mobile development, Software Development Lifecycle, Software Deployment, Software Architectures, Agile Methodologies

SASTRA DEEMED TO BE UNIVERSITY – Tamil Nadu, India

July 2016 – May 2020

B. Tech - Computer Science

WORK EXPERIENCE

My Digital (Startup) - Software Engineer

July 2021 – June 2024

- Improved system efficiency by 70% and reduced processing time through the development of scalable microservices for large-scale data distribution using AWS (SQS, Lambda, SES, SNS, S3, DynamoDB).
- Automated data processing workflows, cutting manual effort by 90% and reducing processing time from days to hours by integrating Openpyxl, Pandas with data orchestration tools like Pentaho.
- Enhanced API-driven services by 60%, leading the integration of third-party API systems using the Adapter pattern for REST APIs to enable real-time data validation and auditing.
- Optimized user experience by 50% through the development of a type-ahead search feature that efficiently handles large datasets in dropdowns, improving user interaction.
- Improved application performance by 50% and user experience by contributing to the migration from AngularJS to Angular 14 using Single SPA, ensuring modern frontend practices.

My Digital - Software Engineer Associate

Sept 2020 – July 2021

- Reduced manual log checks by 50% and improved bug identification by developing a Python script that grouped logs by error levels and topics, simplifying log analysis.
- Enabled seamless download of large datasets (up to 50,000 records) within seconds by optimizing multiple reports using MySQL window functions
- Reduced system errors by 15% by upgrading the company's legacy codebase, improving stability

My Digital - Software Engineer Intern

Jan 2020 – August 2020

- Streamlined the user onboarding process and created a prototype for the flagship product using AngularJS, Laravel, and MySQL

SKILLS

- **Programming Languages:** Python, TypeScript, JavaScript, PHP, NodeJS
- **Web Technologies:** HTML5, CSS3, Angular, AngularJS, Redux, ReactJS, Laravel, RESTful APIs, Flask
- **Cloud, Databases & Tools:** AWS, DynamoDB, MYSQL, Git, Docker, PhpMyAdmin, Pentaho, JIRA

BLOG & CERTIFICATIONS

- [Observer Patter Blog](#) - Discusses pattern implementation in real-time notification system
- **Certifications:** AWS Certified Cloud Practitioner, The Complete Python Bootcamp (Udemy)