

SOWMIYA MEENA SIVA SUBRAMANIAN

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PROFESSIONAL SUMMARY

Accomplished software developer and technology researcher with 8+ years of experience in commercial and research sectors. Proficient in a wide array of programming languages, web technologies, and mobile app development frameworks. Adept at leveraging data analysis and machine learning for informed decision-making. Consistently embraces emerging technologies and methodologies to stay at the forefront of the rapidly evolving tech landscape.

EDUCATION

Bachelor of Technology in Information Technology (First Class), Anna University, India 2010–2014

TECHNICAL SKILLS

Front-End	HTML, CSS, JavaScript, jQuery
Mobile Development	Flutter, Android Studio
Back-End	Python, ASP.NET, C#, PHP
Databases	MySQL, SQL Server, Firebase
Web Technologies	RESTful API Integration, JWT, Firebase Authentication
Version Control	Git, TFS
Development Tools	Visual Studio Code
Data Analysis/ML	Pandas, NumPy, Scikit-learn Random Forest, Support Vector Machines (SVM), Naive Bayes, Logistic Regression
AI Algorithms	TGAN and SynthPop
Data Visualization	Matplotlib, amCharts, Seaborn
Cloud Services	Firebase (Authentication, Storage), Google cloud platform
Design Patterns	MVC, 3-Tier Architecture

WORK EXPERIENCE

Research Engineer | Nanyang Technological University, Singapore Oct 2018 - Present

- Spearheaded multiple research and development projects, significantly contributing to the field of health-tracking applications.
- Designed and implemented iOS and Android applications using Flutter, Dart, and Firebase technologies.
- Developed a web and mobile-based application named "UCHESK (Uberise Coaches for Health Services and Knowledge)" using php, python and jQuery.

- Implemented data anonymization AI algorithms such as TGAN and SynthPop using Python for a private taxi company, ensuring privacy while maintaining data patterns.
- Utilized research data to analyze and predict participant health status through machine learning models, including Random Forest and Support Vector Machines (SVM).
- Integrated motion sensors and managed real-time data processing using Python for individual health and activity performance tracking.
- Played a pivotal role in creating prototypes and scenarios for optimizing homecare and caregiving services for the elderly.
- Demonstrated proficiency in project management, overseeing SAs and interns, procurement, and proposal writing, thereby enhancing operational efficiency.

Software Developer | Cognizant Technology Solutions, India

Aug 2014 - Apr 2018

- Led major enhancements in the "Client Central" project for BB&T, a US bank, ensuring world-class service delivery to customers.
- Developed and enhanced applications using ASP.Net, C#, WPF and WCF.
- Collaborated with cross-functional teams and participated in full project life cycle, from requirement gathering to deployment.
- Managed end-to-end operations, including account opening and servicing, resulting in increased efficiency and customer satisfaction.
- Conducted rigorous quality assurance through test case execution, code review, and impact analysis, meeting high-quality standards.
- Successfully supported System Integration Testing (SIT), User Acceptance Testing (UAT), and Regression Testing phases, ensuring smooth project releases.
- Organized and facilitated daily team meetings, logging, tracking, and reporting defects, demonstrating strong project management skills.
- Engaged in weekly client calls, addressing project clarifications promptly and providing effective solutions.

CERTIFICATIONS

Python for Data Science and Machine Learning Bootcamp, Udemy

Jun 2023 – Oct 2023

PUBLICATIONS

Meena, S. S. S., Bao, H., Pai, S. G. S., Singh, N., Tan, K.Z., Pham, B. T. P., Theng, Y. L., & Lee, E. W. J. (2024) Enhancing Older Adults Physical Activity and Well-being: Design and Implementation of Digital Health App (SingaporeWALK) for Active Ageing. This paper is under review at JMIR. (2nd Round Review)

Cao, Y., **Meena, S. S. S.**, Erdt, M., Mohamed Riaz, M. T. M. A., Yi, J., & Theng, Y. L. (2023). Evaluation of supporting tools for health coaches providing nutrition and exercise coaching to older adults in Singapore. 56th Hawaii International Conference on System Sciences (HICSS 2023), 2921-2930.

NOTABLE ACHIEVEMENTS

Secured 1st place for the Idea provided in "IDEATHON" event conducted at Cognizant.

- Idea title: "Customer Sentiment Analysis"
- Idea Description: Analysing the customer comments or feedback provided through any medium (text or voice) and categorizing it for valuable insights.
- Tools used: IBM Watson tool NLP (Natural Language Processing).