SHWETHAA RAJESH

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EDUCATION

B.Tech (Information Technology) **PSG College of Technology,** Tamil Nadu, India **CGPA: 9.23/10** Aug 2018 – Jul 2022

Class XII, State Board, **Stanes Anglo Indian Higher Sec. School,** Tamil Nadu, India **Overall Score 92.5%** Mar 2017 – Apr 2018

Achievements:

- *Certificate of Excellence* for my exceptional work with **Samsung PRISM**
- *Professional Dancer* with 15 years of experience in Bharatanatyam, Hip Hop, Tamil Folk, & Contemporary Styles
- *School topper*-Mathematics (**99.5%**), **Class XII Tamil Nadu State Board Examination**
- *Captain,* Co-Curricular Activities for the Student Council

MOOCs:

- *Neural Networks and Deep Learning,* **DeepLearning.AI** on Coursera
- *Applied Machine Learning in Python,* **University of Michigan** on Coursera
- *Big Data Modeling and Management Systems,* **UC San Diego** on Coursera
- *Introduction to Data Science in Python,* **University of Michigan** on Coursera

Relevant Coursework: *Data Structures, Operating Systems, Database Management Systems, Computer Architecture, Object Oriented Model and Design, Software Engineering, Design and Analysis of Algorithms, Advanced Data Structures, Theory of Computing, Cloud Computing, Data Mining, Internet of Things, Deep Learning, Java Programming, Programming in Python, Information Security*

Technical skills: Javascript, React, Express, ES6, Node.js, React Native, Typescript, Machine Learning, Python, Web Development, Java, C#, C++, Xamarin, .NET MAUI

EXPERIENCE

*Junior Software Engineer***, Mckinsey & Company**, Bengaluru, India Aug 2022 – Current

- Responsible for communicating with team members, client service team, and client stakeholders, provided regular updates, clarified requirements, and addressed project risks
- Contributed to a project as a QA specialist, meticulously ensuring pixel-perfect design alignment and seamless functionality, guaranteeing a high-quality end product
- Led a team of six interns and developed a Figma plugin for design-to-code conversion to streamline design processes and reduce development time
- Spearheaded the development of a cutting-edge tool for converting wireframes and Figma designs into code, offering flexibility in the choice of platform. The generated code was both responsive and optimized, potentially saving developers up to 80% of effort in coding tasks
- Led the migration of an existing real estate application from .NET MAUI to React Native

Software Engineering Intern, **Mckinsey & Company**, Bengaluru, India Feb 2022 - Jul 2022

- Completed an intensive 8-week program encompassing frontend, backend, and cloud development, consistently delivering mini applications weekly
- Worked on building a custom CMS application for seamless app integration
- Worked on a project building an e-commerce application, and contributed to the delivery of many components including filtering and search optimization
- Showcased remarkable skills by optimizing search load times by 1.5x, enhancing performance by 3x, and achieving a perfect accessibility score of 100%. Proficiently implemented design changes while adhering to project timelines.
- Effectively onboarded and mentored new colleagues, showcasing adaptability in working with the new technology framework Builder.io

Research Intern, **Samsung PRISM**, Bengaluru, India Sept 2020 – Nov 2021

- Led development of a deep learning neural network model to estimate Mean Opinion Score (MOS) for VoIP calls, achieved a *91% accuracy rate*
- Conducted data aggregation of noise recordings and merged them with clean speech samples, employing a tailored algorithm for simulating varied background noise levels
- Proposed and used *Mel-frequency cepstral coefficients* (MFCCs) for audio signal preprocessing, achieved a reduction in MSE from *0.21 to 0.167*

PROJECTS UNDERTAKEN

- *Classification of DBT Images for Breast Cancer Detection*: Designed a deep learning model using ResNet and VGG models for accurate DBT image classification, contributing to early breast cancer detection.
- *Movie Recommender System*: utilizing Python libraries and frameworks, applied collaborative filtering and content-based algorithms to create a technically sound Movie Recommender System and also managed end-to-end model development to improve recommendations' accuracy