

Nageswari Senthilkumaran Valarmathi

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EDUCATION

Arizona State University, Tempe, USA

August 2023 - May 2025

M.S, Information Technology

Anna University, Chennai, India

August 2017 - July 2021

B.Tech, Information Technology

TECHNICAL SKILLS

- **Programming Languages** - JavaScript, Python, Java, Swift
- **Frameworks & Libraries** - React JS, Express JS, Next JS, Flutter, Swift UI, Pandas
- **Unit test Libraries** - XCTest, JUnit, Jest
- **Tools & Technologies** - Docker, AWS, SQL, Node JS, HTML/CSS, Tailwind CSS, Git, GitHub Actions, GraphQL
- **Development Practices & Concepts** - TDD, Version Control, OOPs, SDLC, Data Structures and Algorithms

WORK EXPERIENCES

Thoughtworks | Software Engineer

November 2022 - July 2023

- Developed robust, **user-friendly features** for a **consumer-facing iOS banking** application using **Swift**, **Swift UI**, and **MVVM architecture**, enhancing usability and contributing to a **4.6-star** rating with **500+ positive reviews** on the App Store.
- Increased iOS app **unit test coverage by 25%**, leveraging **Bitbucket** and **Jira** for project tracking, to ensure the delivery of high-quality releases in a fast-paced Agile environment.
- Worked with cross-functional product and customer-facing teams, to implement security features and develop investment and insurance dashboards for **2 Asian markets**, Singapore and Hong Kong.
- Managed iOS build coordination in **Jenkins**, ensuring smoother deployments and leveraging **DevOps** practices, leading to faster code **deployments by over 15%** and enhanced system reliability through effective troubleshooting.
- Mentored **2 interns over 3 months**, collaborating on project tasks and guiding their contributions to development stories, focusing on **agility**, **code reviews**, and providing **constructive feedback**.

Thoughtworks | Graduate Software Engineer

November 2021 - November 2022

- Engineered an **AR mobile app** using **Flutter**, **Unity**, and **Firebase** for virtual try-ons of clothing, furniture, and footwear, optimizing performance and enhancing **user experience**.
- Designed a mobile application leveraging [Computer Vision](#) for t-shirt size prediction, integrating **Python Flask** for back-end services and **Docker** for containerization, leading to a **25% increase** in accurate size prediction.
- Constructed a **CI/CD** pipeline with GitHub Actions for virtual try-ons, slashing **deployment time by 90%**, and reducing overall deployment time from **4 hours** to under **30 minutes**, ensuring continuous integration of high-quality **source code**.

Thoughtworks | Intern - Software Engineer

August 2021 - November 2021

- Architected a responsive web-based **AR/VR** platform using **React JS** to showcase 3D room designs and **20% faster load times** for mobile devices and VR glasses, utilizing **web development** practices.
- Secured **2nd place** in a company-wide hackathon with the Menstrual bot project by applying test-driven development, design patterns, pair programming, and clean code principles.

PROJECTS

- [Note Cracker](#): Built an active recall application with **React JS**, **Supabase**, **OpenAI API** for text generation, and **Notion API** to assist users in revising **Notion notes** through **MCQs** at 3 difficulty levels, with the ability to add various question types as they progress.
- [Starbucks Calorie Calculator](#): Launched a **React JS web application** enabling **calorie calculations** for over **50 Starbucks drinks**, featuring macro and micronutrient displays and sharing options.

OPEN SOURCE CONTRIBUTIONS

- [GitConvex](#): Maintained an open-source web app for managing Git repositories, including a [landing page](#) using **React JS**, utilizing **Figma** for UI design and module for remote repository management, garnering **46 stars**, **10 forks**, and **16 releases** on GitHub.
- [Langline](#): Created a web scraping script using **Puppeteer (Node.js)** for an [NPM library](#), compiling data for **450+** programming languages, showcasing strong data processing and automation skills, and utilizing **back-end** practices.
- [Mimock](#): Collaborated on an open-source platform using **Java** and **React JS** for configuring mock settings and developing mockups for the **REST API**, with **14 GitHub stars** and **4 stable releases**.

PUBLICATIONS

- Dr. A K MARIAPPAN, S V NAGESWARI, ANJANA SRIRAM, R NIVEDHA NANDHINI. "Web Traffic Forecasting Using ARIMA/LSTM", Journal of University of Shanghai for Science and Technology, Vol.23, Issue 10, 2021, 706-714.