

# Sri Harsha Seethalam

---

📍 Nashville, Tennessee, United States ✉ work@harsha.software 📠 6158921616 🌐 in/sriharrsha 🖱 harsha.software

## SUMMARY

I am a highly passionate and dedicated tech professional with a Master's degree in Computer Science from Vanderbilt University, I specialize in Product Design and UI/UX Engineering. With a strong focus on Distributed Systems, I deeply understand the latest technologies and trends in the industry. I am driven by a desire to create products that are not only functional but also visually stunning and easy to use for users. I aim to continue developing my skills and knowledge in this field and work with a team of like-minded individuals to create innovative and high-quality products that provide exceptional user experiences.

## EDUCATION

### Master of Science - MS: Computer Science | Vanderbilt University

2017 – 2019

### Integrated Master of Technology (M.Tech.): Software Engineering | Vellore Institute of Technology

2011 – 2016

## EXPERIENCE

### Senior Software Developer | FortyAU | Nashville, TN | Aug 2019 – June 2024

- Launched 8+ web and mobile applications spanning fintech, digital health, ed-tech, and insurance industries.
- Currently working on **React** and **NestJs** backend Healthcare billing application to process their revenue cycle.
- Built a TeleHealth App in **Android** written in **Kotlin/Java** used for Medical communication using **Twilio VOIP**. Started as Founding Engineer and grew the team to 8 developers with 4 other non-technical stakeholders at Asurion.
- Revitalized a legacy **React Native** Fitness app, surpassing 10 major version updates.
- Implemented CI/CD pipelines for a social marketplace made for musicians and songwriters in React Native.
- Led end-to-end development of a React 18 web app for realty insurance in 4 months, using **TypeScript**, **Material UI**, **XState/State.ai**, **Formik**, and **Yup Validation**, and implemented **GitHub Action CI/CD** for deployment.
- Led HCA's REST to **GraphQL** migration and Architectural direction, reducing manual API coding and upkeep time from months to minutes.

### Co Founder | Zyllion LLC | Nashville | February 2020 - June 2020

- Built a W2, 1099 Client Onboarding Platform with **SOC2** Security built in **Spring Boot** and **Vaadin Java** Framework that decreased the onboarding process time for customers instead of sending sensitive information via insecure channels.

### Research Software Engineer, Front End | Vanderbilt University | Nashville | Oct 2019 – Jul 2020

- Developed and maintained the front-end of Child Education Improvement project utilizing **TypeScript**, **React**, **Node.js**, and **GCP Serverless** technologies
- Designed and implemented user-friendly interfaces for researchers to access and analyze data stored in BigQuery
- Collaborated with cross-functional teams to optimize the performance and scalability of the application
- Contributed to advancements in data visualization and analysis capabilities resulting in more efficient and accurate research outcomes.
- Expertise in front-end development, React, Node.js, TypeScript, GCP Serverless and BigQuery.

### **Founder | Price Guru | Jan 2018 - August 2019**

- Founded Price Guru, a **chrome extension** utilizing distributed computing techniques (similar to **BitTorrent**) and **IPFS** to provide a unique user experience.
- Developed the front-end using React, **Redux**, and Redux Thunk.
- Implemented a microservice architecture utilizing **ElasticSearch**, **MongoDB**, **Redis**, and **Node.js** (Express) with **Docker**-based deployments for scalability and ease of management.

### **Wondry Research Assistant | Vanderbilt University | Greater Nashville Area, TN | Dec 2018 – May 2019**

- Served as the project lead for the development of an iOS-first Progressive Web Application at Peabody Research Office & The Wond'ry, funded by NSF.
- Set up the backend infrastructure on Google Cloud Platform using Cloud Functions in Node.js and BigQuery SQL.
- Conducted code reviews and mentored undergraduate students on React and front-end development tasks.
- Led the process of gathering requirements from stakeholders and managed the project from ideation to product delivery.

### **Software Engineer Intern | UnitedHealth Group | Austin, Texas Area | Jun 2018 – Aug 2018**

- Served as a full stack developer for Optum Analytics, a subsidiary of United Health Group, working on a **data visualization platform**.
- Contributed to the design and development of the platform, including sketching UI/UX prototypes and implementing them using Agile and Scrum methodologies, as well as CI/CD builds.
- Utilized **React** and **Redux** for front-end development and **.NET** technology stack for the back-end.

### **Android Application Developer | Spinta Digital | Chennai, Tamil Nadu, India | Jul 2016 – Oct 2016**

- Built an Education Management App from scratch
- Gathered and understood user requirements through research and stakeholder meetings
- Rapidly prototyped and iterated on designs with stakeholders to ensure a user-centered approach
- Developed the Android application using industry standard technologies and best practices for enterprise solutions.

## **SKILLS**

**Primary Stack** : Java, React, Android, React-Native

**Industry Knowledge**: Android Development, Web Development, Software Development, Software Engineering, Web Applications, Cloud Computing, Front-end Development, Distributed Systems, Web Services, IPFS Protocol

**Tools & Technologies**: Typescript, Kotlin, RxJava, React.js, Redux.js, GraphQL, REST, JavaScript, IPFS, HTML, CSS, JSON, Node.js, Linux, C#, Git, Bash, Arduino, SQL, UML, MySQL, Maven, XML, PHP, Python, Amazon Web Services (AWS), Docker, AWS, Ansible, jQuery, Spring Boot, React Native, AngularJS1

**Other Skills**: Retrofit, Chrome Extensions, Vaadin, J2EE Application Development, Back-End Web Development, PWA, Web3

## **MASTER'S COURSEWORK**

**Resilient Distributed Systems | Vanderbilt University | 2018**

**Principles of Cloud Computing | Vanderbilt University | 2017**

**Machine Learning | Vanderbilt University | 2019**

**Concurrent Java Programming in Android | Vanderbilt University | 2017**

- **Java 8 Promise based asynchronous programming.**

**Computation and Cognition | Vanderbilt University | 2017**

**Web-Based System Architecture | Vanderbilt University | 2019**

- React based web applications

## CERTIFICATIONS

**Programming Cloud Services for Android Handheld Systems | Coursera | Issued September 2014 No Expiration Date**

- Spring Boot, REST API creation for mobile apps

**GraphQL Essential Training | LinkedIn | Issued July 2019 No Expiration Date**

## INVOLVEMENT

**Judge | Vanderbilt University | Vanderbilt University School of Engineering | December 2023 - December 2023**

- Evaluated and critiqued 15 immersive Virtual Reality (VR) applications developed by senior students, providing detailed feedback on user experience, technical quality, and innovation, contributing to the refinement of emerging talents in computer science.

**Judge | Vanderbilt University | VandyHacks | October 2022 - October 2022**

- Judged Vandy Hacks IX Hackathon Competition.

**Rotary International | Head of Community Service | July 2015 – May 2016**

- Office Bearer of VIT Rotoract