Sudheshna Donthineni

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WORK EXPERIENCE

AVANTI FELLOWS *Jul 2021 - Present*
Software Developer - Full stack

- **Portal**:
  - Led the design and development of an authentication product, leveraging **Vue.js** for the frontend hosted on **AWS S3**, and orchestrating a **FastAPI backend** deployed on **AWS Lambda**. Currently accommodates a user base of over **500K**
  - Implemented features, including seamless sign-in, sign-up, and dynamic profile completion. This resulted in a **98%** growth in product usage within a year.
  - Includes **JWT-based** authentication, fortifying security and integrity of user data but also significantly reduced friction points, contributing to a **78%** surge in user engagement

- **Database & Database Service**:
  - Spearheaded the construction of an in-house **PostgreSQL** database, liaising effectively with stakeholders to comprehend data infrastructure requisites and guide architectural design.
  - Implemented a database micro-service in **Elixir** using **Phoenix**, proficiently serving **50K** concurrent users and adeptly managing **200K** data queries per second.
  - Engineered a robust **ETL** pipeline, hosted on AWS Lambda, to facilitate smooth and secure data transfer to the Postgres database from multiple sources, such as Google Sheets & Firestore.

DASERA *Nov 2019 - May 2020*
Software Developer

Built modules for a REST-based MVC application used to display a dashboard containing different types of interactions that a user has with a given data server. Worked with React and Scala Akka.

PROJECTS

- **Soundrise**: (currently under review by Apple)
  - Developed a **React Native** mobile application that allows users to wake up to a different song from their Spotify playlist each morning, providing a personalized and enjoyable wake-up experience.
  - Integrated **Spotify Developers API** to authenticate and uses **Firestore** as a database solution to store and manage user preferences and alarm settings.

- **Mirae**:
  - Engineered a **Vue.js** ERP tool that streamlines both academic and administrative processes of a school, such as managing user profiles, financial data and acting as a communication liason between the school and parents.
  - Built RESTful APIs with **Express**, deployed on **Google Cloud**, that serve data from **Firestore**.
  - Onboarded to support a **low-income school** and successfully serves over **2K** users. Reduced upto **60%** of manual work.

TECHNICAL SKILLS

Languages	**Libraries and Frameworks**	**Tools and Platforms**
Python, TypeScript, Javascript, Dart, HTML, CSS/Sass/Tailwind, SQL, C++	Vue, React, Flutter, Gatsby, GraphQL, Node, Django, Nuxt	Git, Webpack, Netlify, Heroku, Docker, Firebase

EDUCATION

Santa Clara University *Santa Clara, CA*
Master of Engineering in Computer Science and Engineering

R.V. College of Engineering *Bengaluru, India*
Bachelor of Technology in Computer Science

VOLUNTARY WORK

Mathematics Tutor : Volunteering as a tutor, teaching mathematics to low-income high school students.

Society of Women Engineers : Volunteered to educate and provide awareness to the under-served students and helped conduct events like Girls' Scouts Day to expose girls to developments and opportunities in the field of Computer Engineering.