SANTHOSH

Portfolio   +1 (484) 320-9830   a.b.santhosh02@gmail.com   linkedin.com/in/absanthosh   github.com/ABSanthosh

Education

The Pennsylvania State University   **August 2024 – Present**
Masters in Software Engineering   *Pennsylvania, USA*

Shiv Nadar University   **June 2020 – May 2024**
B.Tech Computer Science Engineering, with specialisation in Cyber security (Dean's List)   *Greater Noida, India*

Experience

Utilities developer for Nanoelectronics Computation Lab   **September 2023 – November 2023**
Shiv Nadar University   *Greater Noida, India*

- Migrated the lab's **Network File System (NFS)** from the university's data center to a local machine, reducing hosting costs by 40% and improving data retrieval speed by 25%
- **Automated** and enhanced efficiency of the process by writing scripts for NFS-based user account creation and deletion, ensuring dedicated memory allocation per user.
- Improved data management through the implementation of rotational backups for daily, weekly, and monthly periods, and developed archival scripts to zip and delete unused accounts, optimizing system resources.

Web developer Intern   **July 2023 – October 2023**
Indian Institute of Management(IIM Bangalore)   *Remote*

- Led a team of two frontend developers to research and integrate software solutions, resulting in the design and development of an intuitive UI and UX for a Carbon accounting portal.
- Developed features such as user authentication, a three-step onboarding process, conditional form-based report creation, and a review system for emission reports, facilitating end-to-end emission management for auditors and business owners
- Delivered a web portal expected to be utilized by businesses across India, ensuring compliance with government mandates and enhancing the efficiency of emission-related reporting.

PHP Intern   **June 2022 – August 2022**
GameNation   *Chennai, India*

- Enhanced and maintained legacy internal tools written in PHP, resulting in a modular code base and **improved maintainability**.
- Revamped UI/UX based on a new design, attracting over **20,000 daily visits** to the site.
- Collaborated with the CTO to design and architect a database for a new analytics system, and developed a scraper set up as a cron job to gather and analyze product pricing and demand data across various gaming platforms.

Projects

Verse - Lyric finder | *Kotlin, Android Studio, Playstore*   **Github** | **Live** | **Blog**

- Developed a **Kotlin**-based native application leveraging Spotify's broadcast status feature to capture and display currently playing song information, resulting in efficient lyrics retrieval.
- Implemented web scraping techniques to obtain and parse lyrics from Google pages, ensuring accurate content extraction
- Achieved over **1,500+** organic downloads on the Play Store with an average rating of **4.6 stars**, demonstrating global user satisfaction and engagement.

react-quizlet-flashcard | *React, Typescript, SCSS*   **Github** | **Live** | **Blog**

- Developed a responsive, reusable component library enabling users to create Quizlet-like flashcards on their websites, enhancing interactivity and functionality.
- Achieved recognition with approximately **60+ stars on GitHub**, indicating community approval and engagement.
- Facilitated widespread use with **over 100 downloads** on NPM, demonstrating its utility and adoption by developers.

rslookup | *Svelte, Typescript, SCSS, PWA*   **Github** | **Live** | **Blog**

- Designed and developed a university website, collecting and displaying detailed information about professors, labs, and amenities, resulting in **5,000+ views** and **300+ clicks** from Google Search.
- Facilitated student council operations by integrating features for sharing important documents, Google Forms, and other essential student resources, enhancing accessibility and usability.
- Achieved top search results on Google through optimized SEO strategies, increasing the website's visibility and user engagement.

Skills

Svelte, TypeScript, JavaScript, SCSS, Git, Docker, GitHub Actions, Selenium, Kotlin, Go, Python, Java, Jira, PHP, Bash, Software Development, Frontend, Web Design, REST APIs