Sonia Sunil

soniasunil47@gmail.com | +1 (607) 327-2965 | LinkedIn | GitHub | Portfolio | Data Viz

EDUCATION

Cornell University   Ithaca, New York, United States
Masters of Professional Studies (MPS), Information Science   **Aug 2023 - May 2024**

National University of Singapore   Singapore, Singapore
Bachelors of Engineering in Computer Engineering (Honors)   **Aug 2017 - Aug 2021**

SKILLS SUMMARY

- **Programming Languages:** Python, JavaScript, Typescript, Java, C, C++, Dart, SQL, C# (basic), D3.js
- **Frontend Development:** Angular.js, React.js, Vue.js (v3), Next.js, React Native, Flutter, HTML, CSS, Bootstrap, Material-UI, Tailwind CSS, Prime Components, ChartJs, AnyChart.js, AG Grid
- **Backend Development & Databases:** MongoDB, Firebase/ Firestore, MariaDB, Microsoft Azure, PostgreSQL, MySQL, Elasticsearch, REST Api, Postman, GraphQL/Apollo Client
- **UX/UI Design:** Figma, Balsamiq, Miro, User Research, User Interviews, Usability Testing, Persona, Information Architecture, Interaction Design, User Journey Mapping, WCAG, Design Thinking, User-Centered Design, Responsive Design
- **Data & Analytics:** Tableau, Machine Learning, Jupyter Notebook, Pandas, NumPy
- **Mobile App Development:** Flutter, Android Studio, Xcode, React Native
- **Development Tools:** GitHub, Bitbucket, Visual Studio Code, IntelliJ IDEA, NPM, Webpack, Jira, Jenkins, JFrog, OpenShift, CI/CD Pipelines, Unity, Arduino, Spring Boot, Scrum, Agile Methodologies
- **Testing & Debugging:** Jasmine, JUnit, Unit Testing, End-to-end testing
- **Soft Skills:** Cross-functional team collaborator, Effective communicator, Analytical Thinker, Creative Problem-solver, Quick & Adaptive learner, Fast-paced work environment (startups), Attention to detail, Active listener, Lead initiatives and teams

Relevant Coursework

• Software Engineering & OOP • Data Structures & Algorithms (C++) • Database Systems • App Design & Prototyping • Visual Data Analytics for the Web
• Interactive Information Visualization • Human Computer Interaction • Designing Data Products • Techniques of Data Science

PROFESSIONAL EXPERIENCES

Kidooo AI | United States | Link   May 2024 – **Present**
Frontend Developer
- Pioneered frontend development of their Flutter mobile application, integrating Firebase backend services, to build critical functionalities that incorporated LLM models for improving Early Childhood Development.
- Engineered core features such as Evaluation Assessment, Login/Sign up, Dashboard, User Profile, Onboarding tips and Chatbot views, fundamental to product goal of leveraging AI in tracking a child's development.
- Streamlined frontend development by implementing a structured and modular design system with robust, reusable components, that enhanced development efficiency and maintained a consistent UI across the application.

AImpower | United States | Link   May 2024 – Aug 2024
Frontend Developer
- Fine-tuned frontend of their custom Zoom SDK interface ("Zoom Companion") by employing the Next.js framework and integrating it with a MongoDB backend database, to construct frontend features pivotal to empowering stuttering individuals during videoconferencing.
- Executed features such as affirmation messages, stuttering disclosure nametags and additional meeting reactions, that further enhanced the User Experience.

DBS Bank | Singapore | Link   Jul 2021 – Jul 2023
Associate Software Engineer, UI/UX Team Lead
- Spearheaded frontend development for the Treasury & Markets Department's Risk Control Tower (RICO) project, increasing trading platform connectivity, refining a manual trading system, and boosting trading efficiency by 45%, through a devised centralized dashboard incorporating risk warehousing algorithms.
- Implemented a Micro-frontend Architecture using Angular, integrating PrimeNG components, ChartJs, NG-Dynamic forms, and connecting with a MariaDB backend via REST APIs, Elastic Search, and GraphQL.
- Oversaw frontend deployment process on OpenShift, including publishing packages to JFrog and configuring Jenkins deployment pipelines.
- Collaborated with cross-functional teams to develop, test, and deploy high-quality software solution for internal business users.

Blood SG | Singapore | Link   Jun 2019 – Nov 2019
Software Engineer
- Architected entirety of the e-commerce flow of Blood's Period Tracker mobile application, implementing functionalities such as cart management, payment processing via Stripe API, and purchase history tracking.
- Developed the mobile app for both iOS and Android using the Flutter framework (Dart) and integrated it with Google Firebase and Golang microservices for backend support.
- Leveraged Firebase analytics to analyze user engagement, identify user flow bottlenecks, and resolve critical UI bugs, reducing app crash rates by 20% and increasing user retention by MVP 2.0 release.
- Contributed actively to company re-branding efforts and UX design ideation, to support startup's growth.

RELEVANT PROJECTS – Project Portfolio

Microsoft Client Project - *Course Registration System* | GitHub | Portfolio | Microsoft Dev Blog   Aug 2023 – Nov 2023
- Collaborated with Microsoft Clients (Anagha Todalbagi and Muazma Zahid) to construct the frontend of a course registration system, showcasing Microsoft Azure database's capabilities, which was subsequently featured on Microsoft's Dev Blogs.
- Served as the sole frontend developer, leveraging Angular framework and incorporating PrimeNG components to build a seamless user experience.
- Conducted thorough User Research, designed Lo-Fi, Mid-Fi and Hi-Fi Figma prototypes, constructed Information Architecture and performed Usability Tests.

Meta Instagram Client Project - *InsightEdge* | [Portfolio](#)   Jan 2024 – May 2024
- Applied Tech Product Management expertise to conceptualize a product idea to enhance Instagram's edge in content-creation, under the guidance of Instagram's Product Manager Richa Sood.
- Gained comprehensive exposure across the full product development lifecycle, including conducting User Interviews, crafting Personas, drafting User Journeys, and finally, visualizing the product idea with Figma prototypes.
- Pitched the final prototype and product roadmap to client, earning the "Best Presented Product Idea" award.

Prisoner Express PWA App | [PWA Website](#) | [GitHub](#) | [Portfolio](#)   Jan 2024 – May 2024
- Constructed a Progressive Web App (PWA) for Prisoner Express's digital newsletter, using Vue3, along with Bootstrap and PrimeVue libraries.
- Executed in-depth User research, including user interviews, affinity diagramming, design sketch iterations, and usability tests, to capture user requirements and design targeted functionalities and features for the application.
- Implemented critical functionalities such as search capability, integration of an e-pub reader, and overall structuring of codebase and compilation to PWA.

Beauty AI - *Human Computer Interaction Project* | [Portfolio](#)   Aug 2023 – Nov 2023
- Applied User-Centered Design methodologies to meticulously craft a Figma prototype for an application that simplifies makeup application for diverse facial constructs, under the guidance of esteemed Professor Gilly Leshed.
- Conducted comprehensive user research, meticulously analysing and gathering insights from user interviews, crafting suitable Personas, deriving product requirements, drafting paper prototypes and finally, conducting usability tests, to deliver an effective solution to the problem space.
- Earned the prestigious 'Most Creative' project award for most innovative prototype, during a Prototype showcase session.

Interactive Data Visualization Projects | [Data Visualization Website](#)   Aug 2023 – May 2024
- Demonstrated mastery of D3.js and JavaScript, by harnessing various chart types to create compelling interactive data visuals, including Taylor Swift's discography breakdown, Yelp food reviews, and F1 Racing, to support Visual Data Analytics for the Web.
- Reviewed literatures in the field, to stay cognizant of concepts and advancements in the field, and apply best practices for designing user-friendly visuals.

DBS Bank Solutions Lab Project   Sep 2021 – Dec 2021
- Designed and implemented a web-based tool using Angular framework, to automate Product Risk Calibration and Rating for trading products.
- Collaborated with stakeholders and problem owners to comprehend calculation methodologies and gather user requirements for the tool.
- Achieved runner-up position with the prototype, which was subsequently synthesized into an ongoing project for further utilization and enhancement.

NUS Engineering Good Student Chapters (EGSC) Club - *Down Syndrome Association (DSA) Project*   Nov 2018 – Nov 2019
- Led a team of five members, as Project Lead, for a DSA Project aimed at aiding children with special needs in their learning process.
- Conducted comprehensive user research through client interviews and on-site observations of children with Down Syndrome.
- Developed a prototype simulating a concession card top-up machine, utilizing Arduino for the hardware system and Flutter for the frontend interface.
- Pitched the prototype at the Tech for Good Festival 2019 to various Non-Profit Organizations, successfully securing interests of two benefactors for further funding and advancing the development of the project.

ACHIEVEMENTS & EXPERIENCES

Cornell MPS Program Outstanding Academic Achievement Award   May 2024
- Honored to represent as 'College Symbol Banner Bearer' for the Ann S. Bowers College of Computing and Information Science at the Cornell's 156th Graduating Class Commencement Ceremony, an award given to the top-performing graduate student in the MPS program.

Graduate Research Teaching Assistant - *Cornell MPS Project*   Jan 2024 – May 2024
- Guided project teams in the MPS Course, working for Unilever and Google clients, in Machine Learning and Frontend development areas.

Legal Information Institute (LII) Hackathon 2024 - *Cornell Law*   Mar 2024
- Redesigned and developed LII's Wex system in **Vue3,** to address its complex and unintuitive dictionary search and navigation.
- Integrated frontend with a Machine Learning model that could automize tagging of terms in the legal dictionary to improve its search algorithm.
- Awarded Runner-up with Cash prize and mention of most creative use of technology.

NUS Overseas College (NOC) Entrepreneurship Program - *Singapore Batch'23*   Jan 2019 – Dec 2019
- Chosen for the prestigious NOC Program Singapore batch'23, offering opportunities to explore and develop entrepreneurship venture ideas and accumulate essential startup skills.
- Gained exposure and insight to startup ecosystem in Asia through a 2-week visit to startups based in Japan and Indonesia.