Sonia Sunil

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EDUCATION

Cornell University - *Masters of Professional Studies (MPS), Information Science* — Ithaca, New York, United States | **Aug 2023 - May 2024**
- Cornell MPS Program Outstanding Academic Achievement Award
- Graduate Research Teaching Assistant for MPS Course

National University of Singapore - *Bachelors of Engineering in Electrical & Computer Engineering (Honors)* — Singapore, Singapore | **Aug 2017 - Aug 2021**
- NUS Overseas College (NOC) Entrepreneurship Program Batch'23

SKILLS SUMMARY

- **Programming Languages:** Python, JavaScript, Typescript, Java, C, C++, Dart, SQL, C# (basic), D3.js, R Programming, HTML/CSS
- **Frontend:** Angular, React, Vue, Next.js, React Native, Flutter, Webflow, Bootstrap, Material-UI, Tailwind, Prime Components
- **Backend:** MongoDB, Firebase, MS Azure, PostgreSQL, MySQL, Elasticsearch, REST Api, Node.js, Express.js, Postman, GraphQL
- **UX/UI Design:** Figma, User Research, User Interview, Persona, Affinity Diagrams, Information Architecture, Usability Testing, WCAG
- **Dev Tools:** GitHub, VS Code, Android Studio, Xcode, Jira, Jenkins, OpenShift, Spring Boot, Scrum, Agile Methodologies
- **Soft skills:** Analytical Thinker, Quick & Adaptive learner, Attention to detail, Effective communicator, Leading 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 -

AI ECD | United States | Link — May 2024 – **Present**
Software Engineer (Lead Frontend Developer)
- Pioneered development of their Flutter mobile application, **Kidooo AI**, integrating Firebase backend services and Python REST Api scripts, to build critical functionalities that incorporated LLM models for improving Early Childhood Development.
- Engineered core features - Evaluation Assessment, Login/Sign up, Chatbot - fundamental to product goal of leveraging AI in tracking a child's development.
- Streamlined development by implementing a structured and modular design system with robust, reusable components and detailed unit tests, that enhanced development efficiency, ensured thoroughly tested end-to-end functionality, and maintained a consistent UI across the application.

Psyflo | United States | Link — Aug 2024 – **Present**
UX Designer & Researcher
- Conducted comprehensive market research to understand the needs and challenges faced by BIPOC students seeking mental health support - interviewing over 20 mental health professionals and exploring existing interfaces, to gain insights into the gaps in peer support services in schools.
- Spearheaded design and development of the company website using Webflow, leveraging research findings to design an intuitive and empathetic user interface.
- Worked closely with cross-functional teams, including mental health experts, and community leaders, to align design strategies with community needs.

AImpower.org | United States | Link — May 2024 – Aug 2024
Software Engineer
- 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.

Development Bank of Singapore (DBS) | 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 framework, PrimeNG components, and connecting to MariaDB via REST APIs and Elastic Search.
- Collaborated with cross-functional teams and stakeholders to design and implement a web-based Product Risk Calibration **(PRC) calculation tool** to automate risk calibration and rating for trading products, going above and beyond work scope to address additional needs and enhance operational efficiency.
- Achieved substantial ROI with the PRC tool prototype, as its successful implementation demonstrated measurable value, leading to its adoption and subsequent synthesis into an ongoing project for further utilization and enhancement.

Blood SG | Singapore | Link — Jun 2019 – Nov 2019
Software Engineer
- Architected entirety of the e-commerce flow of **Blood's Period Tracker mobile application**, using Flutter framework integrated with Firebase and Golang microservices, implementing functionalities such as cart management, payment processing via Stripe API, and purchase history tracking.
- 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.

RELEVANT PROJECTS – Project Portfolio

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.
- Conducted comprehensive user research, including user interviews, affinity diagramming, design sketch iterations, and usability tests, to capture user requirements, and implement key features, including search capability, e-pub reader integration, and structured codebase compilation to PWA.

Microsoft Client Project - *Course Registration System* | GitHub | Portfolio | *Featured on* Microsoft Dev Blog — Aug 2023 – Nov 2023
- Collaborated with Microsoft Clients to construct the frontend of a course registration system, showcasing Microsoft Azure database's capabilities.
- Served as the sole frontend developer, leveraging Angular framework and incorporating PrimeNG and Calendar.io 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.

Beauty AI - *Human Computer Interaction Project* | Portfolio — Aug 2023 – Nov 2023
- Applied User-Centered Design methodologies to craft a Figma prototype of an application that simplifies makeup techniques for diverse facial constructs.
- 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.