

Summary

Junior, Computer Science major with interest in software engineering and full-stack web development. Proficient in NextJS, React, Java, Python, JavaScript, HTML, CSS

Education

Springfield, IL**University of Illinois, Springfield****August 2021 – Present**

- Enrolled in the Capital Scholars Honors Program with a full-ride merit scholarship; CGPA of 3.95
- Relevant Courses: Data Structures & Algorithms, Java I & II, Discrete Structures, Web Design, Computer Organization, Calculus I & II, Database Systems, Programming Languages, Operating Systems

Programming Experience

- ClinicsNepal** (Health-tech MERN full-stack project) | MongoDB, ExpressJS, ReactJS, NodeJS, Socket.io, Pusher, SendGrid
 - Worked on personal ambition to make health services accessible online to residents of my hometown in local health clinics
 - Developed dynamic, responsive user interfaces in **NodeJS** runtime environment using **ReactJS** libraries enhancing the user experience and UI
 - Employed **ExpressJS** for real-time scheduling services, and to manage back-end logic and data processing efficiently.
 - Utilized **MongoDB** for storing user data and clinic and appointment records storing
 - Implemented **Socket.io** and **Pusher** to enable real-time communication for users and clinics to receive prompt appointment notifications via email through **SendGrid** and via SMS through **Twilio**.
- UISLocals** (Webapp) | django, PostgreSQL, AWS
 - Developed a webapp for UIS campus community with campus barter exchange, and campus online lost and found
 - Developed front-end using **HTML5**, **CSS**, **JavaScript** for layout, styling and functionality respectively & back-end using Python along with **django** framework and **PostgreSQL** as relational database to store community user details
 - Integrated **AWS S3Bucket** service for safely storing attached user media files like item pictures
 - Deployed & hosted the webapp on **AWS EC2** server enabling SSL and domain binding using HTTPS; 100+ active users now
- Differential Equations Solver with GUI** | Python, SciPy, Tkinter, matplotlib
 - Developed an Ordinary Differential Equations (ODE) visualization tool using Python's **SciPy** & **Tkinter** libraries.
 - Users can input order1 ODEs, set initial conditions, & receive a plotted solution using **matplotlib** to better visualize ODEs.

Employment

STEM Ambassador**University of Illinois, Springfield****February 2023 – Present**

- Currently developing **ResearchConnections** web portal for UIS students with the campus' ITS Office for transitioning Research Office's paper applications to online applications by handling workflow logic in the webapp development.
- Plan and execute STEM event ideas and workshops to attract UIS students to academic research. eg: Conducted Programming in Scratch **workshop** for UIS

Awards and Activities

- President of International Students Association:** Selected from 250+ club members to lead the student organization, organize fun events for students and help out international students in need.
- UIS Provost Essay Award 2020:** First Winner of the Provost Essay Competition 2020; selected from 200+ students
- UIS Leadership Lived Feature:** UIS website and social media feature for exceptional leadership & student engagement

Highlights

- Analytical, Numerate, Multilingual Programmer, Problem-solving, Collaborative Leader, Ambassador