NISHA PANT

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EDUCATION

University of Illinois at Urbana Champaign   Expected May 2022

B.S. Computer Science   GPA: 3.68/4.0

- <u>Relevant Coursework</u>: Algorithms and Models of Computation, Data Structures, Discrete Structures, Probability & Statistics in CS, Artificial Intelligence, Social & Information Networks, Computer Architecture, Applied Linear Algebra, <u>Involvement</u>: HackIllinois Staff, Reflections | Projections Staff, Women in Computer Science

EXPERIENCE

University of Illinois at Urbana Champaign – *Undergraduate Researcher*   Jun '20 – Present

- Researching bluetooth technology under Professor Hari Sundaram to be utilized for COVID-19 contact tracing
- Developing an iOS contact tracing application in Swift to be adopted by over 40,000 UIUC students
- Designing a machine learning model to calculate the distance between two devices using bluetooth with a much higher accuracy than using Received Signal Strength Indicator (RSSI)

FanScript – *Full-Stack Intern*   May '20 – Present

- Building a full-stack, fully-responsive web application with a React frontend and a SpringBoot backend that dynamically simulates sport and concert venues with activities for fan engagement
- Applying RESTful API designs when making HTTP requests to receive data for the simulator

Vimeo – *Software Engineering Intern*   May '20 – Aug '20

- Cancelled due to COVID-19

University of Illinois at Urbana Champaign – *PURE Undergraduate Researcher*   Oct '19 – Dec '19

- Collaborated to build a machine learning model to separate audio files with multiple sound sources
- Analyzed audio files using machine learning models built in Python (Pandas and SKLearn) that distinguish between multiple sound sources in one audio file

Vimeo – Software *Engineering Intern*   Jun '19 – Aug '19

- Improved user upload and video experiences within the Apple Mobile Workflow team
- Integrated a Siri shortcut feature (currently in production to over 90 million active users) into the iOS Vimeo application that allows users to instantly upload videos to Vimeo
- Created product design specification for a Vimeo Creator Chrome extension

Northwestern University – *Research Intern*   Jul '18 – May '19

- Conducted research on secure querying for federated databases with Professor Jennie Rogers to be used by hospitals for searching private patient datasets
- Improved Java applications to make searching within federated datasets more efficient

PROJECTS

Suasana   May '20 – Present

Working on a team of three to build an eco-friendly habit-tracking application in iOS. The app incorporates a chatbot built with Dialogflow that helps users track sustainable habits and learn more about reducing the user's carbon footprint.

International Diamond Company Website   Apr '20 – Present

Creating a full-stack e-commerce website for a local jewelry store where consumers will be able to browse and purchase inventory. The website is fully-responsive and was built using React, GraphQL, MongoDB, and the Stripe API.

SKILLS & AFFILIATIONS

- **Technologies**: Java, C++, React, Swift, Python, Django, GraphQL, Git, Bash, JavaScript, HTML/CSS
- **Women in Tech**: Girls Who Code Alumna, SEEDS Alumna, Rewriting the Code Fellow