# Ninad Kulkarni

## Personal Information


nkulka12@asu.edu

(480) 819-2613

/ninkuk

/ninad-kulkarni-2001

code.ninkuk.com
design.ninkuk.com


## Technical Skills

### Technologies

- Android / iOS App Development
- Website Development
- Web UI / UX
- Graphic Design
- Automation

### Languages

| | | |
|---|---|---|
| Java | HTML5 | Kotlin |
| Python | CSS3 | Swift |
| C/C++ | JavaScript | XML |
| Bash | SQL | |

### Tools and Frameworks

- Python Data Science Libraries (Pandas, NumPy, TensorFlow, SciKit, etc)
- Firebase / AWS
- Node.JS / React
- Bootstrap
- Git / Github
- Android Studio / XCode
- MATLAB
- Adobe Creative Cloud Suite

*Please view all skills proficiency and projects on website*

## Soft Skills

Applying my creative/artistic side to find technical solutions

Organized and Punctual

Experience in meeting deadlines and working under pressure

Fast learner which helps me grasp new technologies rapidly

## Education

**Arizona State University** August 2019 - December 2022
B.S. Computer Science with Honors | GPA 3.82

## Work Experience

**Programming Research Intern** April 2021 - August 2022
**NASA's Psyche Mission**

Part of the student collaboration team at NASA Psyche Mission. Involved in developing and maintaining software including Psyche mobile apps and website. Assisted the Senior Capstone teams and Psyche Inspired students. Engaged in public outreach programs.

## Select Projects

*Please visit my website for more details*

**NASA Psyche - Visualizing Space Data Footprints (Capstone Project)**

- Worked in a team of 3 students to create a tool which can be used to calculate geometrical outlines of an asteroid given a specific image in time.
- This tool is highly beneficial for those who would like to find out the exact portion of an asteroid that is being photographed on a 3D surface.
- The tool was created in Python using SpiceyPy library.

**Atmanirbhar Tarun Manch - Self Reliance (Android App)**

- To combat the unemployment rate and lack of business opportunities (due to COVID-19) in my hometown of Indore (India), I collaborated with a local non-profit organization, "Tarun Manch" (Youth Platform), to create an Android app which serves as a platform for emerging business owners that face trouble gaining traction due to financial limitations.
- The Android app is built using Java/Kotlin and Firebase along with other tools such as Jetpack libraries (like MVVM architecture and ROOM DB) and Material Components.
- This is highly beneficial for those who want to obtain and provide household services and buy goods. The app launched in January 2021 with 200+ daily users.

**ASU Cloud Storage Service Migration Automation**

- I helped ASU's Enterprise Marketing Hub migrate their entire university-wide ASU brand assets library from cloud service Photoshelter to Widen.
- The automation process involved using the Photoshelter developer API's and Python to archive and download the entire catalog of assets while maintaining the catalog structure and preserving the metadata of the assets.
- The downloaded assets were concurrently uploaded to Dropbox as backup.

## Research

**Modeling Misinformation - Barrett, The Honors College** Fall 2021
**Unit for Data Science**

Under the guidance of Director Michael Simeone, I worked with Twitter and Parler data related to the 2021 US Capitol attack, implementing a dashboard to visualize the characteristics and influence of misinformation spread and expanding my knowledge of Python's data science libraries. The lab's aim was not to classify the information as true or false but to produce tools for understanding the salient features of misinformation. This project will benefit further misinformation research for practical implementations by policymakers.

**Learning Research** Fall 2022
**Dr. Leland Hartwell**

Under the guidance of Dr. Lee Hartwell, I explored the concept of "doing" science rather than simply reading about it. I explored the phenomenon of visual cognition by conducting behavioral experiments that would derive some meaning from our visual experience. Additionally, I learned to create behavioral experiments using the jsPsych library and worked towards creating a streamlined system of quick experiment generation through templates. Further research can lead to insights into how human cognition works and how we can replicate that for artificial systems and computer vision challenges.

## Awards and Recognition

**1st Place - Future Business Leaders of America, National Leadership Conference**

- Developed a functional **home-food delivery service website** (e-business).
- Competed against **200+ teams** from around the world and won $600 cash prize.
- Also developed a **leadership training app** for aspiring future business leaders which recieved **3rd place nationally** and $200 cash prize.
- Recognized by the Governor of Arizona for representing the state at a national level and bringing honors in the STEM field.