# Sanika Nandpure

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## EDUCATION

**The University of Texas at Austin**, Austin, TX                                             May 2027
*Bachelor of Science, Computer Science*
   Relevant Coursework: Computer Architecture (currently taking), Data Structures (**Java**), Discrete Mathematics,
   Differential and Integral Calculus

**Plano East Senior High School**, Plano, TX                                             May 2023
*High School Diploma with STEM concentration, International Baccalaureate Diploma*
   Graduated summa cum laude, ranked top 2.5%
   Relevant Coursework:  IB Computer Science (**Java**), AP CS Principles (**Javascript**), IB Math Applications

## SKILLS & CERTIFICATES

**Languages/Technologies:** Proficient: Java, Python, Javascript, React, React Native, Android Studio, C/C++, Pandas,
Numpy, TensorFlow, OpenCV, Git/Github, Shopify Liquid
**Certificates:** Python for Data Science Essential Training, NumPy Essential Training, Pandas Essential Training, Advanced
Python: Working With Data, Python Data Analysis, Learning Data Visualization, Python Functions for Data Science
**Skills**: Full Stack Development, Machine Learning, Data Science, Object-oriented programming

## EXPERIENCE

**University of Texas at Austin, Freshman Research Initiative, Geometry of Space**, Austin, TX        Jan 2024 - Present
*Undergraduate Researcher, ML and Data Science*
- Working with Dr. Shyamal Mitra to classify and understand the distribution of galaxies and other cosmic bodies using **machine learning**, data science (**Python**, **NumPy**, **Pandas**), and computational geometry.
- Working with massive amounts of data from HETDEX and other sources to map out and understand the large-scale structure of the universe

**UT Robot Automation Society, IGVC Team**,  Austin, TX                                      Jan 2024 - Present
*Machine Learning Engineer*
- Implementing complex Computer Vision models for pothole detection; working with **Python** and **OpenCV**

**Tunebat Marketplace (previously Scraps Audio)**, Austin, TX                              Sept 2023 - Dec 2023
*Software Engineering Intern*
- Improved user interfaces on landing and product pages with **Shopify CLI**, **Javascript**, and **Shopify Liquid**, impacting more than **1k** users on the site
- Added important features such as profile pictures on artist, seller, and product cards to give customers more information about their purchases
- Implemented bug fixes on business-side product dashboard, improving the experience for more than **400** major artists, producers, and scrapped audio sellers on the platform

**YoungBytes,** Dallas, TX                                                          Aug 2021 - Sept 2023
*Executive Director, Programming and Math Instructor*
- Over the span of 2 years, expanded YoungBytes from a Texas-based organization to a multinational one spanning **4 countries** (UK, US, Canada, India); increased nonprofit reach by **30%**
- Taught **Java**, **Javascript**, **Scratch**, and Algebra/Geometry to **50+ students** from 4+ different countries.
- Developed curriculum for and taught YoungBytes' first-ever summer coding bootcamp
- Developed a free, on-demand programming crash course for students around the world

## PROJECTS

**Treatsi** (https://github.com/krisub/wics_hacks_24)                                         Jan 2024
- Lead a team of 4 engineers to build Treatsi, a web app empowering minority-owned small businesses to expand their customer audience by incentivizing users to explore and enjoy new local restaurants through a gamified experience
- Developed using technologies including **React Native**, **SQLite**, and **Flask**
- Awarded **Best Novice Hack** out of 210 participants at the Women in Computer Science Annual Hackathon

**UT SafeTrade | Texas Convergent**  (https://github.com/maehekbhatt/f23_fintech_transactions)     Sept 2023 - Dec 2023
*Full Stack Developer*
- Collaborated with team of 10+ product, design, and tech members over the course of a semester to create UT SafeTrade, a marketplace platform for UT students ensuring safe P2P transactions
- Implemented frontend interface with **React Native**; backend with **Firebase** and **Flask**
- Won **Best Tech Award** at Convergent Demo Day