

# ANSHITA SAINI

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## EDUCATION

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### Turing Scholar CS Honors, University of Texas at Austin

B.S Computer Science | 📅 May 2024

- **Selected Courses:** Computer Architecture\*, Data Structures\*, Discrete Math\*, Intro to Probability and Statistics (\* indicates Honors)
- **In Progress:** Operating Systems\*, Programming in C++, Competitive Programming, Software Engineering, Info Search & Web Retrieval

## EXPERIENCE

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### Meta (formerly Facebook)

Software Engineering Intern | 📅 May 2022 - Aug 2022

- Improved effectiveness of profile-guided compiler optimizations for Facebook products (AdIndexer, Instagram) on LLVM Server Compiler team
- Developed fuzzy graph matching algorithm in **C++** to determine valid parts of old profile for newer versions of source code
- Verified algorithm on codebase with over 1 million lines of code, resulting in estimated capacity savings of \$25M over 1 year

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### Citadel

Discover Citadel & Citadel Securities | 📅 Apr 2022

- 1 of 120 students selected to learn about Citadel's Quantitative Research/Trading and Software Engineering opportunities

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### Jane Street

First-Year Technology and Trading Program | 📅 Mar 2022

- 1 of 60 students selected to participate in program for trading, computer science, and math
- Programmed trading bot in **Python** relying on trading strategies including ETF arbitrage, the known fair value of bonds, and discrepancies in the pricing of securities
- 1st place winning team in 8-hour simulated financial exchange based on trading bot profits

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### Google

Computer Science Summer Institute | 📅 Jul 2021 - Aug 2021

- Participated in 4-week intensive computer science program for high-achieving students
- Configured 10+ coding projects in **JavaScript** / **Firebase** through curriculum taught by Google engineers
- Presented final project with live demo to Google employees / community leaders - [CSSI Messaging App](#)

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### Lockheed Martin

Software Engineering Intern | 📅 Sept 2020 - Jul 2021

- Used **Python**, **Docker**, and **GitLab** to analyze Big Data to find faults on laser systems
- Applied **Jira** for project management for 30+ person team
- Built **Beautiful Soup** web scraper to generate lead times for 1000+ parts reducing manual work by 60x

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### University of Washington - Ubiquitous Computing Lab

Research Intern | 📅 Jun 2019 - Jun 2021

- **Stroke Risk Detection:** Applied computer vision and signal processing (**Python**, **OpenCV**) to extract user's pulse delay from facial videos
- Wrote MATLAB script for motion correction on facial videos
- **Sonar Sensing:** Coded sonar sensing data collection web app using **PHP** and advanced **HTML/JavaScript**
- Developed **Python** signal processing techniques to count repetitions of activities through phone's microphone
- Applied Python deep learning (**Keras**) to classify over 10 upper-body activities with 2D CNN

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### Summer Science Program (affiliates Caltech, MIT)

Astrophysics Researcher | 📅 Jun 2020 - Jul 2020

- 1 of 36 students selected internationally
- Developed **Python**-based software to calculate an asteroid's 6 orbital elements - [Research Report](#)

## HONORS

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- UT Scholarships: Gregg and Mariko Zeitlin Endowed Presidential Scholarship, Salisbury Endowed Turing Scholarship
- Recognized as **Coca-Cola Scholar** out of nearly 100,000 applicants
- NCWIT Aspirations in Computing Washington Award Winner

## SKILLS

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- C/C++, Java, Python, JavaScript, TypeScript, MATLAB, PHP, LLVM, Git, React