

Palash Taneja

<https://ptaneja.com>

Email : tanejapalash@gmail.com

Mobile : +1-737-888-9221

EDUCATION

- **University of Texas at Austin**

Austin, TX

BS in Computer Science Honors; Natural Sciences Scholar; GPA: 3.85

Aug 2019 – May 2023

Machine Learning Hon., Computer Networks, Concurrency Hon., Network Security Hon., Operating Systems Hon.

EXPERIENCE

- **Bloomberg L.P.**

New York, NY

Software Engineering Intern

May 2021 - Present

- Designed search engine architecture in Solr to serve user queries on news data visualization
- Aggregated news user analytics in C++ from a global news and user network using Kafka
- Organized developer education program for using No-SQL over SQL databases in Bloomberg News

- **Bloomberg L.P.**

New York, NY

Software Engineering Intern

Jun 2020 - Aug 2020

- Developed machine learning monitoring system in Python, React; decreased time to get key metrics by 9x
- Designed anomaly detection for machine learning system in scikit-learn using statistical methods
- Improved SQL database queries, increasing performance for my workloads by upto 5x

LEADERSHIP AND PROJECTS

- **Swift Development**

Solo projects

- **2020: One of three students worldwide** featured on apple.com, presented pandemic simulator to Tim Cook
- **2019: One of ten developers worldwide** to present my project Dubit to CEO Tim Cook

- **Dubit**

Solo project

- Developed platform in Python for real-time audio translations for YouTube videos
- Designed state-of-the-art algorithm for creating translated audio synced with the original video
- **\$100k grant from IBM** for making education more accessible in developing countries

- **Fabrik**

Open-source contributor

- Developed tool to generate Pytorch and Tensorflow code for models created in visual neural net IDE
- **Grand Prize Winner**, Google Code-in out of 3550 students for my contributions to Fabrik
- Mentored 15 high-schoolers in open-source development and git for Google's Code-in contest

- **Operating Systems Teaching Assistant**

Jan 2021 - Present

- Taught C++ for systems programming, multithreading, virtual memory, file systems, networks to 50 students

HONORS AND PUBLICATIONS

- **D.E. Shaw Nexus Fellowship:** Selected for sophomore fellowship program of about 30 students nationally
- **IOI:** Qualified for Indian National Olympiad in Informatics: programming contest for selecting India's IOI team
- **MIT IEEE:** Paper on detecting Parkinson's diseases using handwriting samples and recurrent neural networks
- **ASES Stanford:** Winner, Entrepreneurship summit organized by ASES Stanford University
- **Natural Sciences Waiver:** highly competitive scholarship awarded to <10 students out of 12,000 undergraduates

SKILLS

- **Languages:** C++, Python, Javascript, Java, Swift, Go, Rust
- **Technologies:** Kafka, Solr, Cuda, Pandas, Numpy, Scikit-learn, Tensorflow, PyTorch
- **Interests:** 3D Printing, Real-time Strategy games, Aviation, Weightlifting, Architecture, Soccer, Fashion