

# Palash Taneja

<https://ptaneja.com>

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## EDUCATION

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- **University of Texas at Austin** Austin, TX  
*BS in Computer Science Honors (Turing Scholar); Natural Sciences Scholar; GPA: 3.85* *Aug 2019 – May 2023*  
Honors electives: Machine Learning, Computer Networks, Concurrency, Operating Systems, Quantum Computing

## EXPERIENCE

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- **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 up to 5x

## LEADERSHIP AND PROJECTS

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- **CoronOS** Team Lead
  - Created and managed an organization of 60 students to create x86 and ARM kernel from scratch
  - In two weeks, team delivered OS that runs Tetris, GUI terminal emulator, with networking and audio stacks
- **Swift Development** Solo projects
  - **2020: One of three students worldwide** featured on [apple.com](https://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

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- **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

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- **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