Palash Taneja

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EDUCATION

- **University of Texas at Austin** — Austin, TX
  BS in Computer Science Honors; GPA: 3.85 — *Aug 2019 – May 2023*
  - Machine Learning Honors, Computer Networks, Concurrency Hon., Network Security Hon., Operating Systems Hon.
  - Natural Sciences Waiver, highly competitive scholarship awarded to <10 students out of 12,000 undergraduates

EXPERIENCE

- **Bloomberg L.P.** — New York, NY
  Software Engineering Intern — *May 2021 - Present*
  - Designed a search engine architecture to serve user queries on news data visualization using **Apache Solr**
  - Aggregated news user analytics in **C++** from a global news and user network using **Kafka**
  - Organized a developer education program for using No-SQL over traditional SQL databases in Bloomberg News

- **Bloomberg L.P.** — New York, NY
  Software Engineering Intern — *Jun 2020 - Aug 2020*
  - Designed anomaly detection for machine learning system in **scikit-learn** using statistical methods
  - Improved SQL database queries, increasing performance for my workloads by upto **500%**
  - Deployed a data visualization web-app in **Python (Flask)** and **React**. Project led to improved employee productivity by decreasing time to get key metrics by 10x

LEADERSHIP AND PROJECTS

- **University Computational Finance** — Director
  - Developed trading bot to trade on pricing arbitrage in virtual economies of games like TF2 and CSGO
  - Lead teams of analysts and developers on weekly quantitative projects combining computer science and finance

- **Swift iOS Development** — Solo projects
  - Was **one of the 3 students worldwide** featured on apple.com and presented a pandemic simulator to Tim Cook
  - Won scholarships to Apple's conference and was one of 10 students to present my project Dubit to 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 Fabrik–a visual neural net IDE
  - **Grand Prize Winner**, Google Code-in out of 3550 students for my contributions to Fabrik
  - Mentored over 15 high-school students in open-source development and git for Google's Code-in contest

- **Operating Systems Teaching Assistant** — Jan 2021 - Present

HONORS

- **Published**: Paper on detecting Parkinson's diseases using handrwriting samples at **MIT IEEE URTC**
- **IOI**: Qualified for Indian National Olympiad in Informatics: programming contest for selecting India's IOI team
- **Jane Street SEE**: Among 32 students selected nationally for quant education program, played electronic trading games, attended lectures on Bayesian thinking, market-making, arbitrage, biases
- **D.E. Shaw Nexus Fellowship**: Selected for sophomore fellowship program of about 30 students

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