

Palash Taneja

<https://ptaneja.com>

Email : tanejapalash@gmail.com

Mobile : +1-737-888-9221

EDUCATION

- **University of Texas at Austin**

Austin, TX

Bachelor's of Science 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

- **Data Science:** Designed anomaly detection for machine learning system in **scikit-learn** using statistical methods
- **Backend:** Improved SQL database queries, increasing performance for my workloads by upto **500%**
- **Full Stack:** 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

- **Swift Developer**

Austin, TX

Independent Work

Jun 2019 - Present

- **WWDC 2020:** Was one of the 3 students worldwide featured on apple.com and presented project to Tim Cook
- **WWDC 2019:** Was one of the 10 students worldwide selected to present project to Apple's CEO Tim Cook

LEADERSHIP AND PROJECTS

- **Operating Systems TA:** Guided students to build pre-emptive multithreading, virtual memory, filesystems, and more
- **Computer Architecture Research:** Researched on using machine learning methods (LSTMs) to find a cache replacement policy that has an 8.9% better cache hit-rate improvement over LRU
- **CoronOS:** Functional Operating System kernel and GUI from scratch in **C++**, managed a team of 60 peers, and worked on porting a full kernel from x86 to **embedded systems** running ARM processors (AARCH64).
- **LoveSong:** Created a dating platform that matches people using a clustering machine learning algorithms based on their music taste. 500 users in 3 days. Backend in **Express.js**, **sqlite3**; ML in **scikit-learn**; deployed on **AWS Lambda**.
- **Dubit:** Created a **Python** and **Node.js** platform that creates real-time translations of YouTube videos. **\$100k grant from IBM** for making education more accessible in developing countries.

HONORS

- **Nexus Fellowship:** Selected for D.E. Shaw's sophomore fellowship program of about 30 students
- **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 recurrent neural networks at **MIT IEEE URTC**
- **Grand Prize Winner:** Google Code-in, open-software development contest, worked on a machine learning visual IDE
- **Winner:** Entrepreneurship summit organized by University of Melbourne and ASES, Stanford University

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