

# Palash Taneja

<https://ptaneja.com>

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## EDUCATION

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- **University of Texas at Austin**

Austin, TX

*Bachelor of Science in Computer Science Honors; GPA: 3.83*

*Aug. 2019 – Dec. 2022*

*Operating Systems Honors, Data Structures Hon., Data Mining Hon., Computer Architecture Hon.*

*Network Security Hon., Concurrency Hon., Algorithms Hon.*

## EXPERIENCE

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- **Bloomberg L.P.**

New York, NY

*Software Engineering Intern*

*June 2020 - August 2020*

- **Derivatives:** Worked on team doing real-time financial derivatives data analysis in Python.
- **Data Science:** Built fault detection system for machine learning system using statistical methods in scikit-learn
- **Backend:** Improved 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 metrics by **10x**

- **University of Texas at Austin**

Austin, TX

*Teaching Assistant*

*Jan 2021 - Present*

- **Operating Systems:** Taught **C++** for systems, multithreading, synchronization, and virtual memory to 50 students. Guiding students to build an operating system kernel and GUI from scratch.

- **University Computational Finance Club**

Austin, TX

*Director*

*Spring 2020 - Present*

- **Portfolio Management:** Managed a \$10k portfolio. Created models for portfolio hedging, portfolio optimization and price forecasting. Also creating a strategy backtesting engine for simulating, backtesting strategies.
- **WallStreetBets:** Pandas, React dashboard monitoring /r/WallStreetBets' topics for momentum investing

- **Facebook**

Mountain View, CA

*Content Creator*

*June 2020 - Oct 2020*

- **Platform:** Helped to create content and shape an early-stage Facebook iOS app targeted to my demographic

## PROJECTS

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- **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.
- **Basketball bets:** Compiled fantasy basketball betting data from rotogrinders and trained a tree-based model to pick teams and make predictions. Made \$60k in backtests.
- **LoveSong:** 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:** **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.
- **Vision:** Improves web-interactivity for visually impaired users by adding conversational navigation to Chrome. Browser extension in **JavaScript**, used Google Speech and Voice APIs

## HONORS

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- **Winner:** Apple Swift Student Challenge 2020, featured on apple.com, presented project to CEO Tim Cook
- **IOI:** Qualified for Indian National Olympiad in Informatics: programming contest for selecting India's IOI team
- **Winner:** Apple World Wide Developer Conference Scholarship 2019, presented project to CEO Tim Cook
- **Published:** 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

## PROGRAMMING SKILLS

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- **Languages:** C++, Python, Javascript, SQL, Java, Swift, Go
- **Technologies:** AWS Lambda, React, React Native, Kubernetes, Tensorflow, PyTorch, Scikit-Learn, Pandas, Numpy