Palash Taneja

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EDUCATION

• University of Texas at Austin

Austin, TX

Bachelor's of Science in Computer Science Honors; GPA: 3.86 Aug. 2019 - Dec. 2022 Operating Systems Honors, Data Structures Hon., Data Mining Hon., Computer Architecture Hon. Network Security Hon., Concurrency Hon.

Projects

- 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.
- 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.
- 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
- 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.

EXPERIENCE

• 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%.
- o 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

- o 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

Honors

- 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: Enterpreneurship summit organized by University of Melbourne and ASES, Stanford University

Programming Skills

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