

Palash Taneja

CONTACT INFORMATION

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EXPERIENCE

Software Engineering Intern, Bloomberg LP

Jun 2020 - Aug 2020

- Contributed 4k lines of code to streamlining a machine learning-based risk analysis system in **Python**
- Deployed a rich visualization and monitoring system for ML infrastructure in **Flask** and **React**
- Optimized database accesses from monolithic queries to micro-transactions for a **50-100x speedup**

Dubit

October 2019

- Launched a **Python** and **Node JS** platform that creates real-time translations of YouTube videos
- Won two hackathons and a **\$100k grant from IBM** for making education accessible in developing countries

Swift Developer

June 2019-Present

- Built an educational mathematically accurate simulator for the Covid-19 pandemic in **Swift**
- Showcased projects directly to **Apple's CEO Tim Cook** during WWDC 2019 and WWDC 2020

Mentor and Contributor, CloudCV

Nov 2017 - Feb 2019

- Contributed over 8k lines of **Python** ML code, and 150 commits to Fabrik—a visual editor for neural nets
- Oversaw and trained 14 high school students in open-source development for **Google's** Code-in contest
- Led transition of code-base from **Java** to **Pytorch, Tensorflow, Django, React, and Redux**

PROJECTS AND RESEARCH

Mobile app for detecting Parkinson's disease

August 2018

- Pair research published at **MIT IEEE URTC 2018**
- Used **Recurrent Neural Nets** in **Keras** to improve diagnosis accuracy by **7%** while using **52% less data**

Specialized compilers

October 2020

- Engineered a compiler in **C++** that compiles all of assembly into alphanumeric x86 instructions
- Compiler in **Python** compiles Turing-complete language into instruction sequences present in a compiled program

Crawler and Search engine

November 2019

- Engineered a webcrawler and search engine in **Java** with an advanced query language, ranking, and indexing
- Optimizes queries with **abstract syntax trees**, stores crawled websites in inverted index (200k pages in < 1s)
- Ranks results using **tf-idf**, uses JUnit for black box and white box testing

EDUCATION

The University of Texas At Austin,

Dec 2022

BS Computer Science Honors (Turing Scholar)

Coursework: **Operating Systems** Honors, **Network Security** Honors, **Data Structures** Honors

Computer Architecture Honors, **Discrete Math** Honors

HONORS AND AWARDS

- *Featured Winner*, Apple Swift Student Challenge 2020, **featured on Apple's website** and had a 1-on-1 session with **Tim Cook**
- *Selected*, for **Jane Street** Freshman Trading and Technology program
- *Qualifier*, Indian National Olympiad in Informatics – national programming contest for selecting India's **IOI** team
- *Won*, a scholarship to **Apple's WWDC 2019**, demoed project in a 10 minute 1-on-1 session with **Tim Cook**
- *Grand Prize Winner*, **Google Code-in**, online software development competition by **Google**, 3550+ participants
- *Winner*, selective entrepreneurship summit by University of Melbourne and ASES, **Stanford University**
- *Top High School participant*, **Google CTF** – ranked 184 in global capture the flag contest by **Google**
- *Top High School participant*, Halite - II, ranked first in HS students from India, #39 globally in a bot competition by **Two Sigma**

LANGUAGES AND FRAMEWORKS

Proficient: C++, Python, Java, Keras, React, NodeJS, Swift

Familiar: React Native, Tensorflow, PyTorch, SQL