

PANKAJ SUBHASH YEWALE

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EDUCATION

New York University - Brooklyn, New York

Master of Science - Computer Engineering (Software Development and Engineering)

May '17

3.5 GPA

University of Pune, Maharashtra Institute of Technology - Pune, India

Bachelor of Engineering - ECE (Minor Computer Information Technology)

Aug '12

3.7 GPA

TECHNICAL SKILLS

Primary	Extensive experience in Java (Android), Python (Django), SQL , AWS (EC2 S3 RDS), Github , Ubuntu OS
Tools	PyCharm , Eclipse, IntelliJ, Terminal , Android /Visual Studio, Wix, Screen, Jupyter , JIRA, Trello, Bitbucket
Frameworks	REST , Android SDK, Django , HayStack, Flask, Celery , Redis , Stripe, Pandas , Spring, OpenTSDB
Secondary	HTML , CSS, PostgreSQL , MySQL, React, uWSGI, Nginx, Docker, C++, Numpy, Matplotlib, GCP

WORK EXPERIENCE

Software Development Engineer at REVMAX Inc. (Funded by BMW) - Brooklyn, New York

Aug '17- Present

- Engineered the backend for 'Transurban Group' demand forecasting tool, predicting daily highway trips-revenue for dynamic toll pricing model - built APIs for Machine Learning based dashboards *(Django, Pandas, React)*
- Built and published **Android** app for 'SidewalkIQ' that notifies hourly foot traffic with weather updates *(Java, XML, Android SDK)*
- Optimized backend data models and REST APIs for 'BMW' German car-sharing service to track vehicles location and predict day-wise potential revenue *(REST, flask, AWS EC2 S3)*
- Developed an admin panel for Client profile setup featuring auth, payment, email server, data engineering to extract features for (pdf, csv, json) reports thereby reducing installation setup time by more than 60% *(Stripe, Redis, Java, HTML, CSS, REST)*
- Implemented location based extract-transform-load pipeline for processing geospatial Big data. Proposed geohash proximity search approach that reduced processing time by ~50% *(Pandas, Jupyter-notebook)*
- Created a bash script that collects data from Weather Underground and Foot Traffic Sensors (>100) to build/update the Postgres backend asynchronously on hourly basis *(REST, Python, Cron, Bash, Celery, SQL)*

Intern at Authorized Revolution Technologies Inc. (HaloLoop) - Marina Del Rey, CA

Jun '16 - Aug '16

- Structured database schema for an Inspirational Live Streaming Social Platform - 'HaloLoop' *(Django, MySQL, Bitbucket)*
- Built and deployed secure REST APIs on cloud platform with authorized tokens for Mobile Apps *(REST, AWS)*
- Integrated Stripe and OpenTok SDK's for high quality interactive video, voice sharing paid services *(Java, Stripe, TokBox SDK)*

Software Engineer at Shoptimize India Pvt Ltd. (Funded by Tandem Capital) - Pune, India

Jan '13- Aug '15

- Reinforced backend models for an e-Commerce Social Networking Web App - 'Cooliyo' 1M+ User base *(Django, Redis, REST)*
- Integrated web/mobile analytics SDK's for monitoring user actions. It provided insights that improved DAU, UI experience, user engagement by more than 15% and Android app downloads by 25% *(Java, Mixpanel, New Relic, Amplitude)*
- Built an automated email marketing campaign with customizable delivery time and content - Notified ~0.5M users about new deals and weekly trending activities that boosted DAU by more than 20% *(Mandrill-Python)*
- Derived RESTful services using Django-Oscar to extend 'In-App cart/purchases' enabling client affiliate program providing 15-20% profit-margin per purchase *(Django-Oscar, Redis, Java SE)*
- Implemented a web crawler to extract product details from 100+ sites(robots.txt compliant) *(Scrapy-Python)*
- Integrated Client-Secret-Token based auth system using Google OAuth, Django Facebook, Auth *(Google, FB OAuth)*

SELECT PROJECTS

SidewalkIQ - Led an IoT based Web Project - quickest way to get sidewalk traffic in NYC with high accuracy (~92%) at less cost -

Setup a distributed server environment for efficient data processing

(Django, Redis, Java, PostgreSQL, Celery, AWS)

MIPS Processor - Developed processor components and assembly code to implement RC5 Block Cipher with Round Key generation -

Implemented a 'assembly to machine code' generating compiler

(C++, Python, Assembly, VHDL)

Cooliyo - Developed and published an e-Commerce Android app (4.2+ rated, 0.5M downloads) featuring social media login, deep

linked push notifications, search, filter, order checkout, tags, save, follow etc

(Java, XML, Android SDK, Play Store)

FB Data Analytics - Modeled a scalable monitoring system using Time series DB. The analysis boosted FB Post Reach from 10K to

0.5M users thereby helping in cost effective marketing

(OpenTSDB, FB Graph, AWS S3 SQS, Boto3, Python)

Guitar Tablature - Generated Guitar-Tab notes by processing a recorded guitar audio clip using Joint Time Frequency Analysis -

Implemented Short Time Fourier, Wavelet Transform, EMD algorithms for feature extraction

(MATLAB, C++)

HONORS/AWARDS

- \$10,000 International Graduate Engineering Scholarship, 2015 *(New York University)*
- Best e-Commerce Mobile App experience award at **e-Tailing Expo**, 2016 Mumbai India *(Shoptimize India Pvt Ltd)*
- Undergraduate consistent high academic performance (above distinction class) honor, 2012 *(Maharashtra Institute of Technology)*