

# PANKAJ SUBHASH YEWALE

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## EDUCATION

**New York University** Brooklyn, New York

Master of Science, Computer Engineering (*Computer Systems, Software 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

## SKILLS

### Primary

Extensive experience in **Java**(Android), **Python**(Django), **SQL**, Ubuntu OS

### Tools

PyCharm, Eclipse, Android/Visual Studio, Screen, Jupyter, JIRA, Trello, Bitbucket, **Github**

### Frameworks

**Android SDK**, **Django**, Celery, **REST** framework, Redis, Stripe, Pandas, **AWS**(EC2 S3 RDS)

### Secondary

GCP, PostgreSQL, MySQL, React, Flask, HTML, Numpy, Mapbox, GMaps

## WORK EXPERIENCE

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

Aug '17 - Present

- Executed 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, REST, Pandas, React*)
- Published 'SidewalkIQ' Android app that notifies hourly foot traffic with weather updates in fast-paced development cycles - accomplished 100% of deadlines as per schedule (*Java, Android, SQLite*)
- Developed a Client-profile admin featuring secret-token auth, stripe, email-server, data engineering to extract features for reports(pdf, csv, json) - reduced installation setup time by more than 60% (*Django-forms-templates, Stripe, Java, HTML*)
- Implemented location based extract-transform-load pipeline for processing geospatial Big data - Proposed geohash proximity search approach that reduced processing time by more than 50% (*Pandas, Boto3, Python, AWS*)
- Structured data models and REST APIs for 'BMW-DriveNow' German car sharing service to track vehicles location and day-wise potential revenue (*REST framework, flask, AWS*)
- Created bash script that collects hourly data from Weather-Underground and Foot Traffic Sensors(100+ NYC locations) to update the Postgres backend asynchronously (*REST, Python, Cron, Bash, Celery, SQL*)

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

Jun '16 - Aug '16

- Engineered back end data models for Inspirational Live Streaming Social Platform - 'HaloLoop' (*MySQL, Bitbucket, Django*)
- Built and deployed secure REST APIs on cloud platform for Web/Mobile Beta App (*REST framework, AWS*)
- Integrated Stripe and OpenTok SDK for high quality interactive video and voice sharing services (*Java, Stripe, TokBox SDK*)

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

Feb '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 SDKs to monitor user actions providing insights that improved DAU, UI experience, user engagement by more than 15% and mobile app downloads by 25% (*Java, Mixpanel, New Relic, Amplitude*)
- Built an automated email marketing campaign with customizable delivery time and content - Notified about 0.5M users with exclusive deals and trending posts boosting DAU by more than 20% (*Mandrill-Python*)
- Modeled a monitoring system using Time series DB - Analysis helped scale FB Post Reach from 10K to 0.5M users and reduce marketing cost by 30% (*OpenTSDB, FB Graph, AWS S3 SQS, Boto3, 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*)

## 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 'assembly to machine code' generating compiler

(*C++, Python, Assembly, VHDL*)

**Cooliyo** - 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, Android, Play Store*)

**TrackPath** - Android app recording routes traversed on Map with history and navigation features

(*Java, Android, GMaps, MapBox*)

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

Fourier, Short Time, Wavelet and Hilbert-Huang Transforms for feature extraction

(*MATLAB, C++*)

## HONORS/AWARDS

\$10,000 NYU International Graduate Engineering Scholarship, 2015

(*New York University*)

Best e-Commerce Mobile App experience Award at e-Tailing Expo, 2016 Mumbai India

(*Shoptimize Pvt Ltd*)

Undergraduate consistent high academic performance Honor(above Distinction class), 2012

(*Maharashtra Institute of Technology*)