Swarn Avinash Kumar

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EDUCATION

IIIT, ALLAHABAD
Bachelors in Information Technology
June 2015 | Allahabad, India
Cum. GPA: 7.5/10

D. A. V. Public School
Grad. May 2011| Chittaranjan, India
CBSE Grade 12th Exam – 80.4%
CBSE Grade 10th Exam – 88.4%

SKILLS

PROGRAMMING
Over 5000 lines:
Ruby • GoLang • C++
Over 1000 lines:
Javascript • Java • C# • PL/SQL
Familiar:
PHP • Python • LuaScript • Shell

PLATFORM/DATABASE
Rails • Node.js • ElasticSearch
PostgreSQL • PostGIS • RabbitMQ
Redis • MySQL • QT • Neo4j • ArcGIS
MongoDB • AngularJS • GIT • Shell

LINKS

Github:// swarnavinash
LinkedIn:// swarnavinash
Topcoder:// ksavinash
Twitter:// @SwarnAvinash
Quora:// Swarn-Avinash-Kumar

INTERESTS

Algorithms and Problem Solving
Open Source + Practicum
Learning new Tech Stacks
Computer Graphics + Practicum
Learning penetration testing(Kali)
Machine Learning
Designing Tech Architecture

EXPERIENCE

HOUSING.COM | Backend Software Developer
Jun 2015 – Dec 2015 | Mumbai, India
- Primarily a backend engineer who handles the GeoLocation requirements of housing.com. Managed an intern, conducted interviews and assisted in site building.
- Wrote a service in **GoLang** for querying 1 million coordinate's intersection with 100k polygons. This service reduced the original time of 4 hours to 4 minutes which includes indexing all polygons and querying in it.
- Created hierarchy for all the polygons in database and thus reduced the query time for the same by 327% in **Rails** , **PostGIS** , **ElasticSearch**
- Background queue for pushing heavy service tasks in **RabbitMQ**

APIGEE | Software Engineering Intern + Full Stack
Jan 2015 – Jun 2015 | Bangalore, India
- Worked on APIhealth - analytics product which checks health, uptime and status of Enterprise APIs.
- Added pre-alert feature based on anomalies detection in **Node.js** which increased the alert accuracy by 135%.
- Added various frontend features in **AngularJS**
- Worked on **docker** for deployment.

SHIFU | Side project sold for $50K+
Aug 2015 – Nov 2015 | Mumbai, India
- Shifu is a user-to-follow recommendation system based on user's music taste.
- Created scalable graph database for users and songs in **Neo4j** .
- Modified Page Rank algorithm of **Apache Spark's GraphX** to generate recommendation of users to follow.

COMPETITION/PROJECTS

ACM International Collegiate Programming Contest
11th/450 | Team Corleone
Oct 2013 - Dec 2013 | Kharagpur, India
Secured 11th Rank out of 450 teams in ACM-ICPC Asia Regionals.

3D WALK THROUGH | http://bit.ly/1aCXy8Q
Aug 2013 - Nov 2013 | Allahabad, NY
A 3D model of generator room of my college was created and integrated in Google Earth. Tools Used – Google SketchUp, Google Earth

AWARDS/WORKS

Year	Result	Competition
2014	1005/9900	Google Code Jam, 1A Round
2013	71.14%ile	Topcoder Algorithmic Competitions
2015	Won 3	Topcoder Nodejs Development Challenges
2013	3rd/108	Topcoder Game Design Challenges
2015	Won 4	Topcoder Assembly Challenges
2014	Open Source Contribution	Contributed to KDE