Aditya Jindal

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🌐 linkedin.com/in/jindaladitya

Education

B.Tech. Electronics & Communication Engineering
IIIT, Hyderabad | 2012 - 2016

Class XII
Dav Public School, Patiala | 2010 - 2012

Class X
The British Co-Ed High School | 2010

Skills

Languages: C++, GoLang, Python, Java and Bash

WebDev : HTML, CSS, web2py

Operating System : GNU, Linux

Miscellaneous : Docker, Git

Achievements

Winner of the Intel India Challenge, 2014.

Runner's Up for Atmel India Challenge, 2015.

Winner of Start Up Weekend Hyderabad for building an Android App which prioritized Incoming calls.

Secured All India Rank 3643 @ All India Engineering Entrance, 2012 among 1.2M candidates.

Rated Specialist in Competitive Programming on Codeforces.

Extra-Curricular

Member of Students Parliament @ IIIT Hyderabad

Member of Constitution Drafting Committee @ IIIT Hyderabad

Work Experience

May'20 — **SDE II @ Amazon AWS Search Services** *Java, Gradle*
- Contributed to open source Elasticsearch plugins for metrics collection, aggregation, and analytics.
- Designed and implemented a self-healing feature for Elasticsearch using Java which detects node and cluster issues and fixes them in real time.
- Designed & implemented an A/B testing Framework which would deploy a feature on a subset of domains to gather early feedback on features being launched for AWS elasticsearch service.

Mar'19 — **SDE II @ Amazon AWS Search Services** *GoLang, Docker*
- Worked on building a containerized high throughput Elastic Task Scheduler for monitoring a million instances in AWS Elasticsearch Service. Led the full system/architecture design of the master Container which would monitor all the tasks scheduled in the monitoring service. This container was responsible for any SLA breaches by the monitoring tasks and was responsible was scaling in and scaling out the monitoring service.

June'17 — **SDE @ Amazon AWS Elastic Search** *Python, Java*
- Redesigned & built a circuit breaker for the clusters which would run of disk space or suffer from high JVM pressure. This circuit breaker would monitor cluster level metrics and block the writes on the cluster in case of limit breaches.
- Designed & built a distributed throttling system which would throttle customer requests across the cluster. This system would prevent & mitigate any kind of DDoS attack on the AWS Elastic Search Service.
- Designed & built a bastion server support for operator access in the service. This resulted in better protection of customer data with auditabily and logging of all the commands executed by operators.

July'16 — **SDE @ Qualcomm 4G Team** *C++, Bash*
- Worked on doing memory and time optimizations in the current NAS framework which should resulted in lesser call drops and better user experience.

July'15 — **Teaching Assistant for Digital Logic** *Logic Gates*
Conducted tutorials and lab-sessions for the course taken by 200 freshers to help them with the subject for 2 consecutive years.

July'14 — **Teaching Assistant for Digital Processors Workshop** *Logic Gates*
Mentored 50 junior year students with the course project which was based on using logic gates to make different patterns.

Academic Projects

Apr'15 — **Efficient Information Retrieval system.** *Python, C++, SAX Parser*
Designed and developed an efficient search engine to query 42GB of Wikipedia documents using secondary indexing. Achieved average response time of 500ms.

Oct'15 — **Virtualization Orchestration Layer** *Python*
Built a RESTful API that can coordinate the provisioning of compute resources by negotiating with a set of Hyper-visors running across physical server in the data-center.

Jun' 14 — **Alert System** *C++, Java*
Built an early alert system for epilepsy attacks in patients by detecting anomalies in EEG Signal. Used SVM based classifier to distinguish between the seizure & normal EEG signal. Winner of Intel Challenge, 2014