

# Aditya Aggarwal

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## EDUCATION

**University of Southern California**, B.S. & M.S. Computer Science Summer 2019, GPA: 3.62 (UG) 3.74 (G) (4.0 scale)

- Coursework: (Graduate) Algorithms, Databases, Deep Learning, Computer Simulation and Animation\*, (Undergrad) Operating Systems, Pro. C++, M.L., A.I.\*, Data Structures - \* indicates top 5% of class
- National Merit Presidential Scholarship, University of Southern California February 2015 - May 2019
- Kleiner Perkins Engineering Fellows Finalist, Nov 2016 & 2017

## EXPERIENCE

### Software Engineer at Amazon.com

August 2019 - Present

Design, implement, and launch key product features to scale automated Physical Stores (Whole Foods centric) inventory replenishment; spearhead operational excellence -- monitoring, CI/CD, and incident preparedness

Skills: Java, Ruby, **AWS** (CloudWatch, DynamoDB, CloudFormation, Serverless Architecture, Data Analytics - Kinesis Redshift, & Quicksight, ...more)

- Led development of near realtime stock replenishment recommendation system to save over a million dollars
- Assessed store scaling strategy in response to the COVID-19 pandemic by modeling latency given historical traffic patterns, infrastructure configurations, and dependency constraints
- Revamped operations dashboards by integrating key performance indicators and improving navigation of metrics across multiple services, increasing use over 7x; designed business intelligence dashboards and data pipeline for real time monitoring of store inventory

### SAP Ariba Software Engineer (Summer Intern)

May 2017 – August 2017

Skills: **Typescript**, **Chatbots** (wit.ai, IBM Watson, api.ai, etc.), **Front End** (Angular, Gulp, SASS), NodeJS, JAX-RS

- Made a prototype chatbot based on IBM Watson, used for enhancing the process of filling out transaction forms on Ariba's products with features such as supplier recommendations based on external shipping data
- Ranked top technical undergrad intern in final recap presentations in SAP Palo Alto (out of 50+ interns) ([presentation link](#))
- Initiated and carried out project to create a [starter's guide](#) on Ariba for interns
- Guide reached C-level leadership and is now being used to familiarize new hires with Ariba's culture.

### GE Digital Software Engineer (Summer Intern)

June 2016 – August 2016

Skills: Java, Jelly, Jenkins, **Java Servers** (Spring Boot, Maven, Cloud Foundry), **Code Analysis** (PMD)

- Optimized code for a Jenkins Plugin which integrates GE's internal record keeping service by 1/3 and decreased running time by 75%
- Wrote documentation to explain structure for future knowledge transfer as project was deployed to production
- Ranked as one of 3 top interns for extending a return offer (100 interns total)

## PROJECTS

### Stanford FSI Children in Crisis

April 2014 - August 2014

Skills: **Android** (Gradle, JAVA, XML, etc.)

- Prototyped Android app (front end and SQLite Database), used to digitized community health checkups to prevent malnutrition in children in Guatemala (serves 1500 children)
- Flew down to Guatemala for 10 all-day user feedback and iteration cycles

## SKILLS

**Proficient in Languages** - Java, Python, JS, and C/C++; **Other Skill Sets** - AWS, Web Technologies (React, Redux, and TS), Machine Learning Software Tools (Numpy & TensorFlow), Graphics Tools (Autodesk Maya & Illustrator)