

# Nikhil Mathews

[github.com/nikhilmathews](https://github.com/nikhilmathews) | [linkedin.com/in/nikhilmathews](https://linkedin.com/in/nikhilmathews) | [nikhilmathews1437@gmail.com](mailto:nikhilmathews1437@gmail.com) | US Citizen

## WORK EXPERIENCE

### AMAZON | SOFTWARE ENGINEER II

2020 | Shipment Consolidation

- Developed consolidation algorithm that accurately predicts whether items can be shipped together yielding \$13MM in ship cost savings annually
- Integrated this algorithm with the authoritative API for promotions to offer site wide badging of items that can be consolidated with items already in cart. Scaled this program to support 100k+ transactions per second
- Expanded accessibility of cart items data to new stack by engineering a lightweight cacheable API that is consumed Amazon wide & reduces upstream traffic by 6:1
- Onboarded and mentored 5 engineers as team grew from 3 to 16 engineers
- Refined team processes around backlog prioritization, design reviews, feature requests and operational support

### AMAZON | SOFTWARE ENGINEER I

2019 | Dynamic Promotions

- Launched free same day Prime shipping program in India which increased Prime adoption by 350k customers and generated an additional \$14MM annually in revenue
- Developed first of a kind dynamic promotions platform and integration with Amazon Pay cashback and Points (in Japan) benefit vending platforms
- Launched multiple widgets on different pages of the Amazon customer journey to recommend items and offer benefits in India, Japan and the EU
- Architected a reactor microservice that streams incoming purchases, calculates eligibility and notifies customers via push notification & on shopping touch points of a time sensitive free shipping promotion

### AMAZON | SOFTWARE ENGINEER INTERN

2018 | Checkout Platform

- Implemented a platform to define custom rules around purchase quantity limits on the retail website at different granularities such as category & merchant
- Reduced overhead of configuring quantity limits on thousands of items to a singular rule for a category
- Integrated enforcement of above rules in latency sensitive Checkout pipeline

### AMAZON | SOFTWARE ENGINEER INTERN

2017 | Delivery Experience

- Designed and developed an internal tool to effectively aid a search platform and detect region data discrepancies
- Implemented a daily scheduler that informs respective teams of conflicts and required action
- Interacted with multiple APIs to retrieve and process intermediate data, reducing client burden
- Integrated tooling with other services in the Amazon ecosystem to prevent future discrepancies

## ABOUT ME

Hey thanks for getting to know me! I'm a backend engineer with a passion for high performance computing, distributed systems and crypto/blockchain technology. Interested in building resilient and highly available systems that operate at scale. I'm currently learning about Ethereum smart contracts and programming on Solidity (thank you CryptoZombies). Always up for a challenge!

## EDUCATION

### UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

2018 | 3.43 GPA

#### RELATED COURSEWORK

- Algorithms
- Distributed Systems
- Computer Systems (OS)
- Artificial Intelligence
- Data Structures
- UI Design
- Computer Graphics
- Probability for Engineers

## SKILLS

### TECHNICAL SKILLS

Languages

Java • C++ • Python • Solidity

Technologies

Git • Linux • Spring • Guice/Dagger • REST • RPC • HTML • CSS • MVC • AWS SNS/SQS (PubSub) • Dynamo (NoSQL) • AWS Lambda • AWS AppConfig • AWS EC2 • AWS S3 • AWS CloudWatch • AWS VPC • JSON

### CERTIFICATIONS

AWS Cloud Practitioner

## LANGUAGES

### PROFICIENCY LEVEL

Native proficiency:

English

Full professional proficiency

Hindi

## INTERESTS

- Table Tennis
- Dota 2
- Sour Beer
- Super Smash Bros
- Scuba Diving