

# Kartik Nighojkar

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## EXPERIENCE

### BLOOMBERG | SOFTWARE ENGINEER INTERN

May 2021 - Aug 2021 | New York, NY

- Designed a resilient, distributed timer system to notify foreign exchange trade groups of cancelled trades within a time sensitive window.
- Built a scalable service layer and distributed message queue for processing 1000+ timer requests per second
- Developed a generic client library for applications to create and stop timers on the system using timer UUIDs, either blocking or receiving an asynchronous callback on completion
- Technologies used: C++, Python, Bloomberg Message Queue, Humio

### DATADOG | SOFTWARE ENGINEER INTERN

Jan 2021 - May 2021 | New York, NY

- Parallelized RocksDB scans during data ingest to the Datadog metrics pipeline, reducing Kafka consumer lag from 4+ minutes to less than 30 seconds during heavy intake periods on 1000+ hosts serving real-time metrics.
- Implemented load shedding protocols on metrics storage hosts with high Kafka lag, causing queries to systematically retry on backup hosts and improving lag recovery time by around 30%.
- Created a Go package to parse performance stats generated by RocksDB C code and send the stats to Datadog for telemetry; generated an associated dashboard to view performance changes over code releases for increased reliability.
- Technologies used: Go, RocksDB, gRPC, Kafka, Kubernetes, AWS, Azure

### THOUGHTSPOT | SOFTWARE ENGINEER INTERN

June 2020 - Sept 2020 | Sunnyvale, CA

- Developed software to automate performance metric collection for front-end application features using Google Lighthouse.
- Implemented performance profiling in React to generate and stream component render times to Thoughtspot.
- Scripted Jenkins pipelines to collect metrics periodically and on dev commit to track performance over multiple releases.
- Technologies used: Javascript, Google Lighthouse, React Profiler, Jenkins, AWS

## EDUCATION

### UNIVERSITY OF CALIFORNIA, SAN DIEGO | BS IN COMPUTER SCIENCE

Jacob's School of Engineering | Expected Graduation: March 2022

Tau Beta Pi Engineering Honors Society • Provost's Honors List

## SKILLS

### RELEVANT COURSEWORK

Advanced Data Structures • Design and Analysis of Algorithms •  
Software Engineering • Operating Systems • Introduction to AI •  
Programming Languages • Recommender Systems • Linear Algebra

### LANGUAGES AND TOOLS

Python • Go • C/C++ • Java • Javascript •  
Node.js • AWS • Azure • Docker •  
Kubernetes • Git • Databases • Kafka

## PROJECTS

### THE SOCIAL PLATE

Apr - June 2020

- As Project Manager, coordinated a team of 10 to create a web application for users to learn and share recipes with friends.
- Used open source Python libraries to scrape, clean, and store 1000+ recipes into Google Cloud Firestore for application use.
- Implemented database caching to reduce render time for frequently searched recipes by up to 2 seconds per search.
- Technologies used: Python, Javascript, React, Node.js, Express, Google Cloud

### LINKEDIN JOB CRAWLER

Aug 2019

- Created a web crawler that finds and organizes computer science job postings on LinkedIn to save manual search time.
- Added features to group job postings by company and role and export data to TSV files for use in spreadsheet format.
- Technologies used: Go, Go-Colly, Goquery