

# APURV PAREKH

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 [github.com/apurvparekh30](https://github.com/apurvparekh30)

## EXPERIENCE

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### FactSet Research Systems, Norwalk

Jan 2018 - May 2019

Software Engineer 1

- Designed a high performant, scalable and low latency data pipeline infrastructure to consume data from exchanges.
- Investigated the current data storage design for SymbolStore and used in memory data store, Redis distributed sentinels for faster storage, retrieval and high availability
- Implemented low latency RESTful services in GoLang to query, modify and export data from SymbolStore.
- Designed web application for SymbolStore to view, filter and export data from various SymbolStore processes

### University of Central Florida, Orlando

Jan 2018 - May 2019

Graduate Teaching Assistant

- Responsible for conducting Lab sessions and mentoring students to solve relevant problems in Algorithm Design (CS II) and Data Structures (CS I).

### Cognizant Technology Solutions, Pune, India

Jan 2016 - Aug 2017

Programmer Analyst

- Worked on Cognizant Onecommunicator application which is used to facilitate the automated communication between resources and applications using email, SMS.
- Wrote a REST services, Go routines, GORM library to receive and process the communication requests from various applications
- Worked with Application Value Management team to improve the application stability and functionality.

## EDUCATION

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### University of Central Florida, Orlando, Florida

May 2019

Master's, Department of Computer Science

GPA: 3.75

### University of Pune, India

May 2015

Bachelor's, Computer Science

## PROJECTS

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### WeatherCast

 [Demo](#)

- Developed a web application in AngularJS and Java Spring to check the Real Time weather condition based on user's current location or user can search for any other location across the globe.
- Worked on Here maps and DarkSky API to obtain weather and geolocation information.
- Used IPStack API to obtain user location data based on current IP address.
- Worked on AWS Elastic Beanstalk and AWS S3 for deployment of web application.

### Dynamic Data Race Detection for Java Programs

- Implemented Lockset algorithm to detect data races in Java Programs at run time.
- Integrated Lockset with user defined probes for instrumented Java bytecode in Calfuzzer framework.

### Environmental Monitoring using AWS IOT and DHT11

- Worked on ESP32 micro-controller, DHT11, PM, NEO-6M sensors to read temperature, humidity and other parameters for current location.

- Worked on AWS\_IOT to securely read the data from device and store it into AWS DynamoDB.
- Implemented AWS Lambda function and created a REST endpoint for Web Applications to read the data from DynamoDB.

### **Rethinking Virtual Memory for Disaggregated Memory Systems**

- Worked on pre-fetching for multilevel page table to exploit the temporal locality and reduce the memory accesses during address translation.

## **TECHNICAL SKILLS**

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### **Programming and Scripting Languages Frameworks, Libraries & Tools**

Java, C/C++, Bash, JavaScript, SQL, HTML  
BootStrap, Angular, Git, Maven