

APURV PAREKH

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 github.com/apurvparekh30

EDUCATION

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

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.

EXPERIENCE

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 Problem Management tickets to provide client support
- Worked with Application Value Management team to improve the application stability and functionality.

TECHNICAL SKILLS

Programming and Scripting Languages
Frameworks, Libraries & Tools

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