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

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.

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 temoporal locality and reduce the memory accesses during address translation.

TECHNICAL SKILLS

Programming and Scripting Languages Java, C/C++, Bash, JavaScript, SQL, HTML
Frameworks, Libraries & Tools BootStrap, Angular, Git, Maven