

KAUTIL REDDY DESIREDDY

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EDUCATION

The University of Texas at Dallas

MS Computer Science | GPA: 3.89

GITAM University

BTech Computer Science and Engineering | GPA: 3.9

Richardson, TX

Aug. 2018 – May. 2020

Hyderabad, India

Jun. 2012 – Mar. 2016

EXPERIENCE

Amazon.com

Remote

Software Dev Engineer I & II

08/17/2020 – Present

- Designed and Developed IoT based solutions for optimizing Amazon's last mile and middle mile delivery. The flag ship product StowByLight is now a standard issue to every delivery station.
- Lead the development efforts for the Interactive Sort Display system to built it from ground up in 3months and piloted it at 3 Fulfillment Centers. The product is heading for network wide deployment.
- Achieved a consistent sub 100ms scan-to-light latency through a combination of caching and network optimizations.
- Improved rendering times by 30% by moving the rendering to the server using Next.js' server side rendering features.
- Developed Systems to monitor the health of 600+ PCs, 1200+ devices and 100k+ LEDs and alarm the technicians within 5mins of detection.
- Revamped the CI/CD process of the edge software. The resultant process reduced commit to deployed-at-edge time by 60% while also adding new features like automatic roll backs.
- Mentored 3 interns during my tenure in the team and all of them received return offers.

Amazon.com

Seattle, WA

Software Dev Engineer Intern

05/13/2019 – 08/03/2019

- Designed and implemented a tool that enables associates to plan the LED layout for the Delivery Stations. This tool then converts the layout into machine-readable form automatically. Thus, reducing the overall planning time in a launch from a few days to a couple of hours.

Tinkerix Technologies

Hyderabad, India

Software Dev Engineer

09/10/2016 – 08/01/2018

- Built an application in Java using the dropwizard framework that analyses user's mobile usage data and recommends the best operator plan that provides the best savings.
- Optimized DB structure and SQL Queries to achieve a 3x faster query times.
- Developed and Maintained the company's website <https://cell.fish/> and internal admin page.
- Replaced the existing system of manual parsing by creating a system of web scrapers and text parsers to obtain relevant information present in pieces of text scraped from internet. This automation has saved the company over 100k rupees a month.

PROJECTS

Distributed file hosting system with Java

May. 2020

- Built a system of distributed servers that hosts a set of files which can be concurrently modified by clients.
- Implemented the Ricart-Agrawala algorithm for distributed mutual exclusion, with the optimization proposed by Roucairol and Carvalho for safe file modification.

Portfolio Website

Dec. 2019

- A responsive, touch-friendly & mobile-friendly website hosted on GitHub Pages.

RELEVANT SKILLS

Languages: Java | TypeScript | JavaScript | Python | Kotlin | SQL | MongoDB | HTML/CSS

Cloud Services: AWS Lambda | IoT | CloudWatch | IAM | EC2 | S3 | CDK | CloudFormation

Frameworks/Technologies: Spring | Node.js | React.js | Bootstrap | jQuery | AJAX | Git

Relevant Coursework: Algorithms Analysis and Data Structures | Design and Analysis of Computer Algorithms | Database Design | Object Oriented Analysis and Design | Web Programming Languages

LEADERSHIP

TA for CS201

Hold weekly office hours and grade assignments for 35 students.