Kautil Reddy Desireddy

(972) 282-3948 | kautilreddy@outlook.com | kautilreddy.com | linkedin.com/in/kautil-reddy/

EDUCATION

The University of Texas at Dallas   Richardson, TX
MS Computer Science | GPA: 3.89   *Aug. 2018 – May. 2020*
GITAM University   Hyderabad, India
BTech Computer Science and Engineering | GPA: 3.9   *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.
- Built the Interactive Sort Display system from ground up in 3months and piloted it at 3 Fulfillment Centers. The product is now headed for network wide deployment and is projected to save over $19 Million per year in sorting costs with a pay back period of just 3 weeks.
- 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:	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.