

# CHETAN KASIREDDY

+1-609-325-1063  
<https://github.com/kchetan>

[kasireddychetan@gmail.com](mailto:kasireddychetan@gmail.com)  
<http://www.linkedin.com/in/chetankasireddy>

## EXPERIENCE

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### **Audible, Inc. Newark, USA**

*June - August 2019*

*Software Developer Intern*

- Worked on a new architecture to automate the rendering of manually maintained category pages into dynamic.
- Developed a feature that helps audible escape customers to browse by micro-genre.

### **Practo Technologies Pvt. Ltd., Bangalore, India**

*July 2016 - July 2018*

*Senior Software Engineer, April - July, 2018*

- Redesigned backend and UI for the ordering module of Hospital Management System, improving Response time by 100%. The backend was written in Java - Spring and frontend in JavaScript-React.
- Ensured code coverage in application using Mockito for code stability.

*Software Engineer, July, 2016 - March, 2018*

- Took the responsibility of code portability within the systems. Remodeled one of the core module-Registration in the Hospital Management System application.
- New REST API's built with a better response time for the end user. Improved the response time by optimizing database queries and the API's.
- Developed front-end using react and wrote unit tests for application using Mockito for code stability

*Software Engineer Intern, May - July, 2015*

- Developed Hire-ninja, an application for HR's to keep track of the recruitment in Python (Flask)
- Developed Access-gateway, an application which automates access request to Github, jira etc.

### **International Institute of Information Technology, Hyderabad, India**

*Research Assistant, Building Science Research Center, May, 2013 - January, 2014*

## SKILLS

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**Languages :** Java, Python, C++, C, SQL, JavaScript, HTML, CSS, PHP, Bash, Prolog, DistAlgo

**Technologies :** Spring, React, Flask, MySQL, PostgreSQL, Git, SVN, Jira, Redux, Redis, HDFS, Spark.

**others :** D3.js, Bootstrap, Perl, Kernel programming, LaTeX, Eclipse, IntelliJ, Linux,

## EDUCATION

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### **Stony Brook University, Stony Brook, New York**

*Master of Science, Computer Science, August 2018 - present*

(GPA - 3.96/4.0)

### **International Institute of Information Technology, Hyderabad, India**

*Bachelor of Science, Computer Science, August 2012 - May 2016*

(GPA - 8.21/10.0)

## PROJECTS

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### **Wikipedia Search Engine** , *Information Retrieval and Extraction*

*August - December, 2014*

- Implemented an efficient search engine (in Python) on a dump of Wikipedia data of 46GB
- Tertiary Indexing for fast searching, which returns 50 queries per second. TF/IDF ranking was used.

### **Algorand Byzantine Consensus** , *Asynchronous Systems*

*November - December, 2018*

- Implemented proof of stake Byzantine Algorithm in Algorand, a Blockchain consensus algorithm.
- Implemented Gossip protocol and simulated Byzantine failures to test correctness and performance.

### **Backup file system, Stackable File System** , *Operating Systems*

*February - March, 2019*

- Built a stackable file system on the Linux file system to add backup functionality for regular files.
- Implemented a backup number and space based retention policy.
- Performed version management by implementing restore, view, list and delete functionalities.

## RELEVANT COURSEWORK

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Asynchronous Systems, Algorithms, Artificial Intelligence, Operating Systems, Big Data Analytics, Information Retrieval, Data Warehouse and Data Mining, Statistical Methods in AI, NLP

## ACHIEVEMENTS

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- Selected for Dean's list for academic excellence.
- Commendation Certificate for contribution towards sports activities in IIIT-H.
- Ranked 1240 in AIEEE and 4720 in IIT.