

Sai Charan Akkena

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SUMMARY

Computer Science graduate student with strong passion for learning new technologies and experience with working across the full stack of Software Development. Seeking an opportunity where I can utilize my educational and professional skills and contribute towards the prosperity of the organization.

EDUCATION

December 2021	Illinois Institute of Technology Master's in Computer Science GPA – 3.6/4.0 Selected Course Work: Cloud Computing, Software Project Management, Machine Learning, Advanced Data Mining, Enterprise Web Applications, Mobile Application Development, Big Data Technologies.	Chicago, IL
April 2019	Illinois Institute of Technology Bachelor of Technology, Computer Science	Coimbatore, India

SKILLS

- **Languages:** C++, Java, Python, JavaScript, HTML, CSS
 - **Databases:** MYSQL, MongoDB, Neo4j
 - **Tools/Frameworks:** Angular, Flask, Node.js, Android, Git, AWS, Bootstrap, jQuery, JSP, J2EE
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EXPERIENCE

June - Aug 2021	Software Engineering Intern - HealthEdge Software, Inc. <ul style="list-style-type: none">• Streamlined an existing web tool and shipped a new feature to proactively monitor and fix issues in the customer environment.• Designed and implemented RESTful web services for use by both the internal and external teams.• Automated the process of analyzing data trends over time, helping customers gain valuable insights into the Failed Transactions and Stuck Claims over a time period.• Tools & Technologies Used: Python, Angular, Flask, Node.js, angular-google-charts	Burlington, MA
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PROJECTS

Jan - May 2021	Big Data Pipeline <ul style="list-style-type: none">• Built a Data Pipeline using AWS services that simulates real world applications and perform real time analysis as required to help achieve business goals.• Created the architecture and Cloud Formation templates to facilitate the deployment of pipeline.• Developed a Python API for Amazon Lambda that manage multiple AWS services.• Examined the readings in real time and inferred that all parts in the motor are working synchronously and are in stable condition.• Technologies Used: DynamoDB, Kinesis, Lambda, S3, Crawler, Glue, Athena, QuickSight, Kinesis Firehose
Aug - Dec 2020	Grocery Hub <ul style="list-style-type: none">• Developed a Full Stack Enterprise Web Application that supports Trending and Real-time Streaming of new products where customers can view and buy groceries at stores closest to their location.• Integrated multiple public API's into the application to improve user experience.• Performed preliminary tests to verify the functionality, accuracy, and efficiency of the Web Application.• Technologies Used: HTML, CSS, Bootstrap, Font Awesome, JavaScript, Ajax, jQuery, JSP, JSTL, Java, Servlets, Python, MySQL, MongoDB, Neo4j, Google Maps JavaScript API, Twitter API
Jan - May 2020	Shared Memory Tera Sort <ul style="list-style-type: none">• Developed a Multi-threaded application using Java that is flexible enough to handle different types of storage and compute resources.• Deployed the application on Chameleon cloud and conducted performance evaluation on different nodes.
Nov - April 2019	Facial Recognition for Visually Impaired <ul style="list-style-type: none">• Designed a wearable and portable prototype that can be worn and carried around with ease to aid the Visually Impaired people recognize the faces of known people in their presence.• Technologies Used: Python, Open CV, Haar Cascade Classifier, FaceNet, Raspberry Pi Microcontroller