

Sharath Chandra E S

✉ sce3@illinois.edu ☎ +1217-205-7987  [sharath07chandra](https://www.linkedin.com/in/sharath07chandra) 📍 Champaign, Illinois, USA

EDUCATION

University of Illinois Urbana-Champaign.

Urbana-Champaign, USA

Master of Computer Science (GPA: 4.0/4.0)

December 2023

Coursework: Applied Machine Learning, Database Systems, Software Engineering.

Visvesvaraya Technological University

Bengaluru, India

Bachelors in Computer Science & Engineering (GPA: 3.86/4.0, 3rd rank in the department)

2015 – 2019

Coursework: Data Structures, Design and Analysis of Algorithms, Machine Learning, OS, Cloud Computing.

SKILLS

Programming Languages: C++, C, Java, PHP, Python, JavaScript (Node.js) | **Cloud Technologies:** Microsoft Azure, AWS.

Web Technologies & Databases: HTML, CSS, Express.js, React.js, REST APIs, Flask, MySQL, MongoDB, FirebaseDB.

Softwares and Tools: VSCode, WebStorm, PyCharm, Linux, Anaconda, Git, JIRA, Bitbucket, Maven, Jenkins, Gradle, Postman, Rocketlane, Confluence.

Others: Elasticsearch, Apache Druid, Amazon Alexa Skills, Google Assistant routines, Google DialogFlow, Docker.

PROFESSIONAL EXPERIENCE

University of Illinois Urbana Champaign, Graduate Research Assistant

Dec 2022 - Present

- Leading the **UIUC development** team comprised of undergraduate and graduate students at **Amazon Alexa SocialBot** competition.
- Integrating multiple NLP models and systems like BlenderBot, FLAN-T5, Cosmo etc. to hold an open-ended conversation with the user for a maximum of **20 minutes** while building the backend systems using **Python** and **Flask**.
- Implemented data pipelines and dashboards using **AWS Redshift, QuickSight, Athena and CloudWatch**. Also built solutions using **S3, EC2, CloudFormation & Lambda** while maintaining the CI/CD pipeline using **CodeCommit and CodePipeline**.

Yellow.ai | Bengaluru, India, Senior Software Engineer / Tech Lead

Jan 2021 – Aug 2022

- Spearheaded **50+** projects including clients like d2h, MG Motors, Ministry of Education Dubai, Colgate to develop AI Bots while managing a team of **15 developers & business analysts** across multiple cross functional teams.
- Led the integration of multiple **payment gateways** like Razorpay, payU, Billdesk with the product using node.js, express.js and REST APIs to provide payment transactions as a plug and play module.
- Pioneered and implemented the **WhatsApp Pay** (beta phase of WhatsApp payment process) for the Indian consumer market by coordinating with multiple technical teams from Meta and WhatsApp.
- Integrated and built multiple **webhooks** to handle multiparty client communications using express.js and REST APIs.
- Orchestrated various features of **WhatsApp business** into the product like dynamic messages, list, buttons while also giving Cart management capabilities to E-Commerce clients.
- Integrated Microsoft and Google **TTS and STT** engines to handle Urdu and other multilingual capabilities which increased the product adoption by **10%**.

Yellow.ai | Bengaluru, India, Software Engineer

Oct 2019 – Dec 2020

- Developed the regression testing module using node.js & puppeteer to reduce the manual testing dependency by **80%**.
- Automated **20+** reusable components like html2pdf conversion, lodash, async, moment.js library integration in the product which increased the work efficiency and code runtimes by **35%**.
- Improved NLP training models like **word2vec** and **Sentence Encoder** using Python with real time customer data to better identify lemmas and intent categorization.
- Built multiple analytics dashboards using **Apache druid** and **Elasticsearch** to be able to evaluate individual client performance metrics and goal achievement.
- Implemented **FTP and SFTP** protocols to handle various invoicing and file accessibility to the end users over multiple channels increasing the automation capabilities of the product by **15%**.

PROJECTS

- **Lip Reading System Using AI:** A software that can segment and predict the words spoken by a person from a silent input video sample using CNN and concepts of AI, and was developed using Python, ML Libraries and Tkinter.
- **Handwriting Recognition Using Machine Learning:** A classifier system developed with images of letters so it can match and predict the letter being drawn on the screen in front of the camera using Image Processing in Python.
- **Automobile Inventory System:** A vehicle management system from the dealer's perspective where customers can buy cars and the dealer has complete inventory management control, developed using PHP, MySQL, HTML and CSS.

ADDITIONAL EXPERIENCE AND AWARDS

- **Course Assistantship, UIUC:** Course Assistant for **CS222: Software Design Lab** worked as a mentor to guide the undergrad students.
- **Star Performer, Yellow.ai:** Recognized as the star performer for deploying long stuck projects which resulted in **\$Mn's CARR**.
- **Mr. Consistent Spotlight award, Yellow.ai:** Awarded for being the most consistent performer for a newcomer during the entire year.
- **Best Intern award, Expertshub:** Awarded the Best Intern among 100+ interns for excellent delivery of the project based on IoT.
- **Cultural and Technical Team Head:** Head for the undergrad college for a team of **80+** individuals and faculty.