Milan Chheta

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EDUCATION

Indiana University Bloomington, IN   *Aug 2019 – May 2021*
Master of Science in Computer Science   *CGPA: 3.75 / 4.0*
Relevant Courses**:** Software Engineering, Applied Distributed Systems, SQL/NoSQL, Cloud Computing, Pervasive Computing

University of Mumbai, India   *Aug 2014 – May 2018*
Bachelor of Science in Electronics and Telecommunications   *CGPA: 3.51 / 4.0*
Relevant Courses**:** Structured Programming Approach, Object-Oriented Programming Methodology

WORK EXPERIENCE

Wolfram, Champaign, IN
Cloud Developer Intern   *June 2020 – Dec 2020*
- Worked in a collaborative environment to maintain a cloud-deployed product and integrated new functionalities by creating React.js components, writing frontend unit tests, and performing debugging tasks
- Built command-line/shell/terminal applications and API endpoints, easing the process to generate changelog, triggering build tasks, and to monitor builds and server status

NetGains Technologies Pvt Ltd, India
Software Developer Intern   *June 2018 – Sept 2018*
- Successfully built an automated chatbot system, by using Google's Dialogflow API and integrated it with MySQL database, leading to reduced effort for handling customer queries
- Combined the system with a dashboard interface for users to customize the chatbot and alter its functionality

SKILLS

- **Languages:** Python, JavaScript, HTML/CSS**,** C++, Shell-Scripting
- **Frameworks/Technologies:** ReactJS, React-Native, Redux, NodeJS, Flask, Docker, Kubernetes, Istio, Travis CI, Google Cloud Platform, Jetstream Cloud, Jira, Git
- **Database:** MySQL, MongoDB

PROJECTS

Expense Tracker   *Dec 2020*
- An application to track personal expenses, implemented with containerized microservices
- Deployed the system on Google Cloud Run through a CI/CD pipeline set up with Google Cloud Build and GitHub

Sentence Length Distribution Analysis   *Nov 2020*
- Used Google Cloud Functions to create a serverless application and provide sentence length distribution analysis
- Reduced the computation cost of the application by designing and adding a caching system using Cloud Firestore

Easy Connect   *Oct 2020 – Nov 2020*
- A cross-platform mobile application for researchers to easily connect and communicate with each other
- Utilized research papers to provide recommendations based on computed cosine-similarity

Distributed MapReduce System   *Sept 2020 – Oct 2020*
- Designed, developed, and deployed a generalized MapReduce framework on Google Cloud with parallel computation functionality among the dynamically created virtual machines for mapper/reducer tasks
- Built a Memcached system for the MapReduce system, to implement a command-based consistent data storage on the network

Distributed Weather Forecasting System   *Jan 2020 – May 2020*
- Developed a weather forecasting system and deployed the system in a Kubernetes cluster using a CI/CD pipeline built with Travis CI and GitHub
- Implemented asynchronous communication between containerized microservices using Apache Kafka, and added Istio's Service mesh to improve security, load balancing, and information gathering of the deployed system

Volunteer Management System   *Sept 2019 – Dec 2019*
- A social network-based event management system, built by following the scrum agile methodology, helping volunteers to be aware of near-by events and helping the organizations to reach out to volunteers more effectively