

Akash Gajjar

☎ +1 (352) 709 8678 | ✉ akashgajjar8@gmail.com | [in linkedin.com/in/akashgajjar](https://www.linkedin.com/in/akashgajjar) | github.com/skywalker212

Education

University of Florida

Master of Science in Computer Science

August 2022 – Exp. December 2023

Gainesville, Florida

Dhirubhai Ambani Institute of Information and Communication Technology

Bachelor of Technology in Information and Communication Technology; CPI: 8.31/10

August 2015 – May 2019

Gandhinagar, India

Technical Skills

Languages:	TypeScript, Java, Python, C, SQL
Frameworks:	Angular, Express.js, Jasmine.js, Next.js, JUnit
Courses:	Algorithms, Data Structures, Database Management Systems, Introduction to Cryptography, Distributed Operating Systems Principles, Programming Language Principles, Computer Networks
Tools:	Git, VS Code, Vim, Jupyter Notebook
Other:	Node.js, React, Redis, GraphQL, Apache Kafka, PostgreSQL, MongoDB, Kubernetes

Experience

Infosys Limited

Power Programmer Level II

October 2021 – July 2022

Bangalore, India

- Lead developer of a multi-million dollar revenue-generating web application development platform - Infosys Equinox Studio
- Responsible for site reliability (*99.9% uptime*) of the web applications deployed using the Infosys Equinox Studio platform
- Designed and developed telemetry capturing and processing pipeline capable of processing *~3000 Messages/second* using Apache Kafka, StreamSets Data Collector, and ELK stack
- Collaborated with technology architects to design the deployment flow for the Infosys Equinox Platform, reducing the deployment time from *3 hours* to *30 minutes*
- Mentored a Junior Developer

Infosys Limited

Power Programmer

June 2019 – September 2021

Bangalore, India

- Implemented RFC 6902 compliant JSON document versioning
- Developed a TypeScript library to generate a Server Side Rendered web application using a JSON configuration
- Decreased the site loading time from *20 seconds* to *1.5 seconds* by identifying and fixing computation-heavy code, configuring database indexing, making Kubernetes configuration changes, and setting up device based caching
- Developed an HTML Drag and Drop interface to generate JSON with a custom schema
- Implemented Distributed resource locking mechanism using Redis, AWS AppSync, and GraphQL Subscriptions

Dhirubhai Ambani Institute of Information and Communication Technology

Machine Learning Research Intern

Jan 2019 – May 2019

Gandhinagar, India

- Worked on Human Protein Atlas Image Classification problem
- Developed a Machine Learning model capable of localizing mixed patterns of proteins in microscopic images of human cell
- Studied existing methods used for protein classification
- Experimented with various hyper-parameters and features to study their effects on the accuracy of the machine learning model
- Implemented a Data Generator to prevent out-of-memory exceptions when training the machine learning model

Projects

Actor based Gossip and Pushsum protocols | *Erlang*

2022

- Designed, implemented, simulated, and analyzed randomized gossip and push sum protocols for decentralized dissemination of information and computation in distributed systems using the actor model in Erlang
- Simulated and analyzed various node failure models on the system

Actor based Chord Protocol | *Erlang*

2022

- Implemented, simulated, and analyzed Chord protocol for a peer-to-peer distributed hash table using the actor model in Erlang
- Developed a sample application on top of the chord to look up the value associated with a key

Programming Language Compiler | *Java*

2022

- Defined lexical structure and phrase structure for a programming language with limited functionality
- Developed a Lexer to generate tokens from an input program
- Implemented a Parser to generate an Abstract Syntax Tree from an input of tokens