

Prajjawal Agarwal

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ABOUT ME

Current Graduate Student pursuing Master of Science in Computer Science at Stony Brook University, NY. Have an industry experience of more than 3 years of working as a full-stack software developer.

EDUCATION

SUNY Stony Brook

Master of Science in Computer Science - CGPA: 3.95/4

New York, USA

Aug 2022 – May 2024

Indian Institute of Information Technology Allahabad

Bachelor of Technology in Information Technology - CGPA: 8.73/10

Prayagraj, India

Jul 2015 – Jun 2019

EXPERIENCE

Software Engineer Intern

Jun 2023 – Aug 2023

MarketAcess

NY, USA

- Collaborated with other tech interns to design and develop workflows for an enhancement in a microservice architecture using Kafka, Redis, WebSockets, React, and Java SpringBoot.
- Conducted a PoC project while working with stakeholders to explore the feasibility of a possible solution.

Senior Software Engineer

May 2020 – Aug 2022

MindTickle

Pune, India

- Led Authentication and Rule Automation team, driving successful projects to completion and serving as the primary point of contact for stakeholders.
- Implemented highly efficient serverless file uploader system with socket communication, reducing file processing time by 30% and improving user experience.
- Designed multi-region routing stack, enabling customized data storage and increasing customer satisfaction.
- Introduced GraphQL and led frontend projects, resulting in faster development cycles and improved productivity.

Software Engineer

Jun 2019 – Apr 2020

MindTickle

Pune, India

- Developed robust query framework reducing query execution time by 40% and enhancing scalability for bulk operations using Elasticsearch.
- Architected service, decreasing processing time by 50% for large tasks and improving visibility during operations.

Software Engineer Intern

Jan 2019 – Jun 2019

MindTickle

Pune, India

- Built customer-facing frontend application using React and Redux-Saga, improving user satisfaction by 40% and streamlining rule handling.
- Conducted comprehensive study of UI frameworks, contributing to a 30% improvement in development efficiency.

TECHNICAL SKILLS

Languages: Java, Python, GoLang, Javascript, Typescript, C++, SQL, N1QL

Databases: Couchbase, Elasticsearch, PostgreSQL, DynamoDB, Redis

Libraries/Frameworks: React, Relay, Redux-Saga, Express, Flask, d3.js, SpringBoot, Hibernate ORM, Valgrind

Miscellaneous: Git, Docker, Webpack, Kafka, Kubernetes, Amazon Web Services, Azure, GraphQL, gRPC, Node.js

AWS: DynamoDB, Lambda, Cloudfront, S3, Cloudformation, Step Functions, Cloudwatch

Azure: Cognitive Services, Durable Functions, Azure Storage

Relevant Coursework: Distributed Systems, Operating System, Data Structures and Algorithms, Database Management Systems, Computer Networks, Data Visualization

PROJECTS

Visual Dashboard for AirBnbs in NYC | *React, Flask, d3.js, Python*

Jan 2023 – May 2023

Sharded Fault Tolerant Distributed Key-Value Datastore | *C++, Distributed Systems*

Sep 2022 – Nov 2022

Smart Book Reading Assistant | *Python, Microsoft Azure(Cognitive Services)*

Sep 2022 – Nov 2022

EXTRACURRICULAR ACTIVITIES

- Graduate Research Assistant (RA)** for File Systems and Storage Lab (in collaboration with IBM Research - Almaden) under Prof. Erez Zadok (Spring 2023) to instrument the data flow in Azure Durable Functions.
- Graduate Teaching Assistant (TA)** for CSE216 under Prof. Ritwik Banerjee (Fall 2022 and Spring 2023).