

# Shreya M Prasanna

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## Software Developer

- Software Engineer with 3 years of experience, a Master's in Software Engineering, and a certification in Business Entrepreneurship.
- Skilled in full-stack development, including Python, Java, MySQL, Angular, FastAPI and Django
- Developed responsive web applications and integrated RESTful APIs, improving user engagement, page load speeds, and data retrieval efficiency.
- Proficient in Git, optimizing code performance, and collaborating in an agile environment to deliver high-quality code with 2 weekly releases, meeting sprint goals.

## EXPERIENCE

### Clarivate

Bangalore, India

#### Software Engineer

11/2021 - 07/2023

- Developed 15+ features for an Angular UI dashboard, including lazy loading, infinite scroll, improving patent data access by 40%.
- Optimized backend REST APIs using FastAPI in Python and MySQL queries, cutting query times by 85%, from 2 minutes to under 10 seconds.
- Automated batch patent file transfers using cron jobs on Linux and WinSCP, reducing transfer time by 40%
- Gained experience with Jenkins to automate CI/CD pipelines, improving deployment speed by 40%.
- Familiar with AWS S3, EC2, SQS, and used AWS CloudWatch to set up alarms, reducing response time to issues by 25%.
- Mentored a fresher, ensuring a smooth transition in 6-7 weeks through knowledge transfer sessions and process documentation.

### Clarivate

Bangalore, India

#### Associate Software Engineer

05/2021 - 11/2021

- Created a translation service using Java and integrated 10 new languages using IBM and Google translation engines, expanding service capabilities, and documented the procedure.
- Implemented batch translation and glossary API with Google, reducing translation costs by 20%
- Migrated MAT system from Spring to Spring Boot, replacing XML with Java configs, reducing complexity and improving performances.
- Performed migration of over 25 queries from Oracle to PostgreSQL and MongoDB, testing both for system revamp and evaluating their scalability.
- Explored and tested Apache Kafka, gaining hands-on experience with its architecture, message brokering, and real-time data streaming capabilities.

### Accenture

Bangalore, India

#### Application Development Associate

11/2020 - 04/2021

- Built reusable React.js components, debugged issues, and resolved over 20 bugs for the in-house project, and worked briefly on the backend using Node.js.
- Collaborated with UX and product teams to gather insights and designed 3-5 custom templates using Figma.

## EDUCATION

### Master of Engineering in Electrical and Computer Engineering

University Of Waterloo

09/2023 - 12/2024

Waterloo, Canada

### Bachelor Of Engineering in Computer Science

Dayanada Sagar University

08/2016 - 07/2020

Bangalore, India

## PROJECTS

### SSHAAuthman — University Of Waterloo

09/2024 - 12/2024

- \* Contributed to SSHAAuthman, a secure repository managing 1000+ public keys, enabling employees and students to self-manage authorized public keys for SSH authentication.
- \* Implemented Django internationalization for access key management in more than 5 languages and used MkDocs to document the procedure and usage.

### Traffic Management Optimization — University Of Waterloo

09/2023 - 12/2023

- \* As part of coursework, designed a solution to optimize security camera deployment at traffic intersections by addressing the NP-complete Vertex Cover problem, reducing camera installations while ensuring full coverage.
- \* Analyzed and evaluated CNF-SAT, Approx-VC-1, and Approx-VC-2 algorithms to determine their effectiveness based on dataset size and optimal usage scenarios.

## SKILLS

Agile development, Amazon CloudWatch, CSS, DSA, Debugging, Django, Docker, FastAPI, Figma, Git, GitHub, GitLab, HTML, Java, JIRA, JavaScript, Kafka, Leadership, MongoDB, MySQL, Node.js, Object-oriented programming, PostgreSQL, Postman, React.js, REST APIs, RESTful development, Springboot, SQL, Software Development Life Cycle, Swagger, Team Collaboration, TypeScript.

## AWARDS AND CERTIFICATIONS

- \* **Certificate in Business and Entrepreneurship** 12/2024  
Conrad School of Entrepreneurship and Business
- \* **Received a Star Award for overall performance in Q1** 02/2022  
Clarivate