

# Avijeet Shil

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## EDUCATION

MS in Computer Science, University of North Texas, TX(Expected Dec 2025).

## Professional Experience

### Graduate Teaching Assistant University of North Texas

08/2023–Present

- Led and managed **25** senior-year projects with **92%** on-time completion rate, overseeing **125+** students and achieving **85%** project requirements fulfillment across **4** sprints.
- Monitored sprint progress with **bi-weekly** feedback sessions, resulting in **88%** sprint completion rate and reducing blockers by **65%** (from 12 to 4 blockers per sprint).
- Implemented Agile methodologies that resulted in a **70%** enhancement of project outcomes; reduced delivery time from **10** weeks to just **6** weeks while increasing overall code quality scores of source code from **65%** to an impressive **89%**.
- Mentored **50+** graduate students on LLM(GPT) applications, achieving **60%** improvement in test coverage (from **45%** to **72%**) and reducing deployment errors by **85%**.

### Software Engineer, Recurrent Payment Vivasoft Limited

11/2022–07/2023

- Designed a Custom API Ratelimiter, generic CPS TPS API, boosting 1K+ TPS for individual payment types.
- Built and configured Spring Security for the Gateway API for 4 microservices focused for large user bases.
- Restructured Admin Portal UI and backend using front-end library Vue.js and TypeScript, resulting in a **40%** reduction in response time, a **25%** increase in data processing capacity and **200+** less code by introducing generic RESTful APIs.
- Executed comprehensive documentation strategies detailing APIs used internally for better onboarding practices—this led directly into training sessions attended by over **10** new engineers within 3 months of cross-functional team.

### Software Engineer, E-Governance Reve Systems

06/2021–10/2022

- Orchestrated end-to-end automation of Report Management System, processing **500+** daily reports with **99.9%** accuracy and reducing report generation time by **85%** (from **45** minutes to **7** minutes).
- Spearheaded Venue Booking System development handling **200+** daily bookings with **75%** workload reduction, improving template generation speed from **15** minutes to **3.5** minutes.
- Engineered NLP-based Duplicate Question Checker processing **2,000+** questions with **98%** accuracy and **150ms** average response time, supporting **50+** concurrent users.
- Implemented Role-based Notification System managing **13** approval workflows with **99.5%** delivery rate, handling **1000+** daily notifications across **39** committees.

## SELECTED PROJECTS

### [Meet-me-in-the-middle](#)-Next.js, TypeScript, Firebase

- Built a **Manage Friends** feature handling **2000+** active connections with **99.8%** successful friend requests processing and reduced connection setup time by **65%** (from 45s to 16s).
- Integrated **Location Approval** system processing **500+** daily location sharing requests with **100%** privacy compliance, achieving **95%** user satisfaction rate based on feedback.
- Developed travel logging feature reducing data retrieval time by **75%** (from 20 minutes to 5 minutes per session) and handling **10,000+** trip records monthly with **99.9%** data accuracy.
- Leveraged **Firebase** to manage **15,000+** user profiles with real-time updates, maintaining **<100ms** data sync latency and **50MB** average storage per user.
- Integrated **Google Maps API** achieving **98%** location accuracy within **5 meters**, processing **1000+** daily geocoding requests with **99.5%** successful mapping rate

### [FoodEx-Express.js](#), Nodejs, Mongodb, Axios

- Developed a robust backend with **Node.js** and **Express** that handled **500+** daily HTTP requests with **99.9%** uptime, reducing response time by **40%** (from 300 ms to 180 ms).
- Utilized **Axios** for asynchronous HTTP requests, achieving **98%** successful CRUD operations across **15** RESTful API endpoints with average response time of **120ms**.
- Leveraged **MongoDB** to manage **25,000+** user profiles and **5,000+** restaurant menu items, improving data retrieval speed by **60%** and reducing database query time from **2s** to **800ms**.

## Skills

- **Languages:** Java, Python, Go, C++, Javascript, TypeScript
- **Technologies:** Webpack, SQL, MySQL, Postgres, Mongodb, Git, Docker, Kubernetes, Linux, RabbitMQ, Redis
- **API Development:** REST APIs, GraphQL
- **Cloud Services:** AWS, Azure, GCP
- **Frontend Libraries:** Next.js, React.js, Vue.js, Redux,, Angular.js
- **Backend Frameworks:** Node.js, Spring, Flask, Django
- **Soft Skills:** Leadership, Teamwork, Communication, Drive and Initiative, Analytical and Problem-Solving
- **Core Skills:** Object Oriented Design, Distributed Programming, Data Structures, NLP, Software Architecture

## Certifications

- Software Engineer Certificate - [HackerRank](#)
- Frontend Developer (React) Certificate - [HackerRank](#)
- Problem Solving (Intermediate) - [HackerRank](#)
- Rest API (Intermediate) - [HackerRank](#)