

# Prajakta Pikale

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## EDUCATION

University of Illinois, Urbana-Champaign | Illinois, United States

Aug 2024 - Dec 2025

Master of Computer Science | Graduate Teaching and Course Assistant

GPA: 3.8/ 4

Coursework: Cloud Computing Applications, Distributed Systems, Database Systems, ML for Software Engineering

Vishwakarma Institute of Information Technology | Pune, India

Aug 2017 - May 2021

Bachelor of Technology in Computer Engineering

GPA: 9.49/ 10

## TECHNICAL SKILLS

**Programming:** C++, JavaScript, TypeScript, Python, SQL

**Web Development:** React, Next.js, Three.js, HTML, CSS/SASS, Tailwind, GraphQL, RESTful APIs, Node.js, Express.js, Django

**Databases:** MySQL, Microsoft SQL, PostgreSQL, MongoDB, DynamoDB, Neo4j, Firebase

**Cloud and Platforms:** AWS, GCP, GitHub Actions, Docker, Kubernetes, Linux, Git, Jira, Postman, Figma, VS Code, WebStorm

## EXPERIENCE

Expedia Group | Software Development Engineer

May 2023 – July 2024

- Developed a full-stack **data analytics web platform** featuring an interactive **React** frontend with **custom-built data visualization dashboards** and **Tableau** integration, supported by a **Node.js** backend for **RESTful API** management.
- Built dynamic and interactive dashboards to visualize key business **KPIs** (e.g. monthly and weekly recurring data) using **Material-UI React Table** and **Highcharts**, **automating reporting** processes and **saving 10+ hours** of manual work per week while improving **data-driven decision-making** by **30%**, collaborated with cross-functional teams.
- Designed, implemented, and maintained **new features** and **backend APIs**, optimizing performance to ensure response times stayed under **100ms** for real-time insights, resolved **software bugs** with effective debugging and testing practices.
- Automated **CI/CD** pipelines using **GitHub Actions**, and managed version control and **deployment workflows** using **GitHub**, **Jenkins**, **Docker**, and **Kubernetes**, streamlining continuous integration and delivery processes.

Cognizant Technology Solutions | Programmer Analyst

Sep 2021 – Mar 2023

- Contributed to building and maintaining the **frontend** of a **large-scale** web application for one of the leading Swedish **insurance companies**, aimed at streamlining internal team management workflows using **React**.
- Utilized **Redux** and **React Hooks** for efficient state management and integrated **API endpoints** using **GraphQL** and improved performance by optimizing a critical API call, resulting in a **15% reduction** in round-trip time.

## PROJECTS

3D Web Developer Portfolio | React, Three.js, React Three Fiber, Framer Motion, Tailwind ([Link](#))

- Developed an interactive **3D** portfolio using **React** and **Three.js**, integrating **GLTF** models for **3D rendering**.
- Used **React Three Fiber** to create **dynamic animations** with **Framer Motion** for fluid visual and responsive web experience.

Data-Driven Forecasting and Visualization of Fresh Food Demand | Next.js, Python, MySQL, Django, ML ([Link](#))

- Developed a web application using **Python**, **Scikit-learn**, and **Django**, leveraging a **linear regression** machine learning model to predict fresh food demand, reducing inventory waste significantly by **20%** and improving **supply chain efficiency**.
- Designed interactive charts and dashboards with **real-time data visualizations** using **Next.js** and **Chart.js**, enabling analysts to monitor inventory, **track demand trends**, and make **data-driven decisions**, improving stock accuracy and management.
- Implemented secure, **role-based access control** and **automated** alerts for perishable inventory management.

Quora Clone | React, Redux, Node.js, Express.js, MongoDB ([Link](#))

- Built a full-stack web app, Quora Clone - a **social question-and-answer application** replicating key features of **Quora**.
- Integrated **authentication** using **Nodemailer** and **Passport.js** JWT strategy with **OAuth2 Google Sign-In**.
- Utilized **Context API** and **Redux** for state management, **react-router** for routing, and **React Hooks** for reusable logic.
- Developed **API logic** with **Node.js**, employing **Mongoose** to manage schemas, and perform **CRUD** operations in **MongoDB**.