

Sai Prakash

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Summary

A driven computer science student with hands-on experience in software engineering and a strong foundation in data structures, object-oriented programming, and cloud technologies. Proficient in **Python** and experienced with cloud infrastructure, containerization (Docker, Kubernetes), and API-first development. Passionate about cybersecurity and eager to contribute to real-world solutions in secure application development. Demonstrates strong interest in AI, machine learning, Adept at collaborating in agile environments, optimizing code delivery, and continuously learning through mentorship and peer collaboration. Ready to bring technical skills and passion for innovation to F5's software engineering internship program.

Skills

Languages: Python, JavaScript, HTML5, CSS, Tailwind CSS, SQL, SQL(Postgres), MySQL, NoSQL.

Technologies & Tools: MongoDB, AWS EC2, Node.js, Docker, Git, visual studio code, Microsoft word, Excel, Bootstrap.

Frameworks: Express.js, Django, jQuery, Web API, RESTful APIs.

Libraries: React.js, Next.js

Work Experience

Accenture, Bangalore

May 2022 – Dec 2023

Full Stack Developer

- **Developed custom web applications** integrated with client systems, streamlining business workflows and improving operational efficiency.
- **Diagnosed and resolved system issues**, reducing downtime by **30%** and ensuring smooth, uninterrupted operations for **200+ end-users**.
- **Created tailored applications** on existing platforms, enhancing functionality and increasing user satisfaction by **40%**.
- **Built middleware solutions** for complex requirements using **Node.js** and **Express**, processing **10,000+ API requests** daily with **99.9% uptime**.
- **Designed and implemented front-end applications** using **JavaScript**, **React.js**, **HTML**, **CSS**, and **jQuery**, improving user interface responsiveness by **35%**.
- **Deployed and maintained middleware** on **AWS EC2 instances**, optimizing **load balancers** and routing for **high-traffic environments**, monitored via **CloudWatch logs** for real-time performance insights.
- **Integrated MySQL databases** with **Node.js** using **Sequelize**, improving database query performance by **20%** and efficiently managing **100,000+ records**.
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Project Work

Event Sharing Web Application (2024)

- Built an event-sharing platform enabling **500+ weekly users** to discover, register, and manage events, increasing event participation by **35%**.
- Designed a responsive user interface with **HTML** and **Bootstrap**, improving accessibility and boosting user engagement by **30%**.
- Integrated **JavaScript** and **EJS templates** for dynamic interactivity, reducing task completion time by **20%**.
- Utilized **Express** for routing and implemented middleware to manage by ensuring secure authentication and efficient error handling.
- Managed a scalable database with **MongoDB Compass**, achieving **99.9% uptime** and handling **10,000+ records** for seamless session and flash message storage.

Photo Sharing Web Application (2022)

- Built a photo-sharing platform featuring photo uploads, user interactions, and gallery views, attracting over **users weekly** and boosting engagement by **40%**.
- Developed a React-based front end with dynamic UI components, ensuring seamless state management and reducing **page load times by 30%**.
- Implemented a **Node.js/Express** back end to efficiently handle **HTTP requests** and by providing **secure user authentication** and optimized API performance.
- Designed and deployed **scalable RESTful APIs** for efficient data interaction with high reliability.
- **Integrated MongoDB** for database management, achieving **99.9% uptime** and improving **data retrieval speeds by 25%**.

Education

University Of North Carolina at Charlotte [UNCC]

Jan 2024 – Dec 2025

Master of Science in Information Technology

Current - CGPA: 3.69/4

Relevant Coursework: Object Oriented Programming, Databases, Network Based Application Development, Software System design and Implementation, **Algorithms and Data structures**.