PRUTHVI NIRANJAN

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EDUCATION

Northeastern University   **Sep 2022 - Aug 2024**
Master of Science in Software Engineering Systems, GPA: 3.8/4.0   *Boston, MA*
Coursework: Algorithms, Generative AI Development, Data Warehousing, Distributed Systems, Data Science.

PES University   **Aug 2018 – May 2022**
Bachelor of Engineering in Computer Science   *Bengaluru, India*
Coursework: Cloud Computing, Computer Networking, Blockchain, Operating Systems

SKILLS

Programming Languages: Python, Java, SQL, C++, JavaScript (React, Angular), Node.js,.NET, SpringBoot, Bash.
Systems & APIs: RESTful, GraphQL, Distributed Systems, Linux, Kafka, ElasticSearch, LogStash, Git.
Cloud & Databases: AWS, Docker, Kubernetes, Jenkins, PostgreSQL, Redis, MongoDB

EXPERIENCE

Mega Structures   **Jan 2024 – Jul 2024**
Software Engineer   *Bengaluru, India*
- **Workflow Automation Team**: Produced automated enterprise solutions to enhance efficiency and scalability.
- Devised and deployed an automated leave management system using **Python (Flask, PostgreSQL)** reducing processing time from **24 hours to 2 hours** increasing approval response rates by 50% through timely notifications
- Optimized data processing pipeline to efficiently analyze structural defects in buildings with **1M+** records using stored procedures advanced indexing techniques and using **OracleDB**.
- Enhanced data quality and system reliability by implementing automated unit and integration tests using **JUnit** and **Postman**, reducing manual verification efforts by **40%** and improving functional efficiency.

Juniper Networks   **Jan 2022 – May 2022**
Software Engineer   *Bengaluru, India*
- **Network Automation and Optimization Team:** Designed and implemented automation to configure and monitor Junos-based network infrastructure, improving scalability, reducing downtime by streamlining network operations.
- Developed and fine-tuned automation scripts using the PyEZ framework to configure and manage **Junos devices** programmatically, reducing manual errors by **60%** and significantly improving the efficiency of network deployments.
- Augmented custom monitoring and logging tools to analyze network performance and troubleshoot failures, improving log parsing efficiency by **10%** and reducing issue resolution time by **30%** through proactive alerting mechanisms.
- Investigated and resolved **two critical customer-reported issues**, including a complex router misconfiguration, by analyzing device logs and configurations, improving overall network stability and **reducing downtime by 25%**.

Resource Infrastructure Management   **Aug 2021 – Nov 2021**
FullStack Developer   *Bengaluru, India*
- **Enterprise Application Development Team**: Structured and generated scalable web applications to enhance business process automation, user experience, and security.
- Devised and deployed a responsive HR portal using **ReactJS and Node.js**, improving user experience by **70%** through enriched accessibility, seamless navigation, and improved performance across five core modules.
- Crafted a **reusable UI component** library adhering to internal design standards, standardizing the UI across five projects and improving frontend consistency and maintainability.
- Streamlined global state management using **React Query and Context API**, improving data fetching efficiency.
- Integrated **TypeScript** for type safety and implemented JWT-based authentication, enhancing access control.

PROJECTS

ChessMaster | *React, TypeScript, Spring Boot, MongoDB, PostgreSQL, WebSockets*   **Jan 2025 – Present**
- Designed a responsive UI with Bootstrap and SASS, enhancing gameplay experience and real-time interactions.
- Established a secure backend with Spring Boot, integrating MongoDB and PostgreSQL for scalable data storage.

Corporate CI/CD Pipeline | *Kubernetes, Jenkins, SonarQube, Nexus, Git*   **Sept 2024 – Dec 2024**
- Built a CI/CD pipeline with Kubernetes and Jenkins, automating builds, testing, and deployments for enterprise use.
- Configured SonarQube and Nexus for security scans, ensuring infrastructure resilience and artifact management.

ChatterMind | *Next.js, Flask, MySQL, NLTK, Naive Bayes*   **Jan 2024 – Apr 2024**
- Developed a chatbot with a Next.js frontend and Flask backend, leveraging MySQL for structured data management.
- Refined query accuracy to **95%** by fine-tuning a Naive Bayes model with NLP preprocessing.