**DHRUMIL PIPALIYA**

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**PROFILE**

Results-driven Software Developer with expertise in full-stack development, cloud computing, and machine learning. Strong foundation in data structures, algorithms, and distributed systems, with a passion for building scalable, high-performance applications. Proficient in Python, Java, C++, SQL, and cloud platforms (AWS, Azure, GCP). Adept at problem-solving, software architecture design, and Agile methodologies. Seeking opportunities to leverage technical acumen and innovative thinking to drive impactful solutions.

**Pace University, Seidenberg School of Computer Science and Information Systems** New YorkCity , New York

MS in Computer Science | **Concentration**: Software Developer May 2026 Expected

**K J Somaiya institute of Information Technology** Mumbai , Maharashtra

BTech in Computer Engineering | **GPA: 8.67** May 2024

**RELEVANT COURSEWORK**

Algorithms & Computing Theory | Database Management System | Artificial Intelligence | Machine Learning | Internet Programming | Quantitative Analysis | Distributed Computing

**TECHNICAL SKILLS**

**Programming Languages**: Python, Java, C++, C, JavaScript, R,Typescript,Kotlin,PHP,Go,Rust

**Database Management:**MySQL , SQL , PostgreSQL,Mongo DB,Maria DB,Dynamo DB,Oracle,Cassendra,Redis,Firebase

**Software / Tools:** Git,Github,Jenkins,Bitbucket,Jira,Matlab,AWS,Docker,Microsoft Azure

**Machine learning :** TensorFlow, PyTorch, Scikit-learn, Keras, NumPy, Pandas, Matplotlib, Google collab, Jupiter notebook

**Operating Systems**:Linux,Ubuntu,Windows , macOS

**ACADEMIC PROJECTS / PERSONAL PROJECTS**

**SQL Injection Detection Using Reinforcement Learning** September 2023 – May 2024

* Developed a reinforcement learning model using Q-learning and a hybrid CNN-SVM architecture to detect SQL injection attacks, enhancing real-time threat detection and system security.
* Utilized Python libraries such as TensorFlow, Keras, and scikit-learn to build and train machine learning models, demonstrating proficiency in relevant software development tools and technologies.
* Designed and conducted experiments using benchmark datasets to evaluate the performance of the RL-based approach, validating the model's accuracy and resilience in detecting SQL injection attacks.Published my research paper in ANVESAK journal.

**Break-Bite** January 2023 – May 2023

* Engineered a mobile-first application utilizing the Flutter framework to develop a cross-platform canteen ordering system, leveraging Dart language features for UI rendering and state management.
* Designed a RESTful API to handle asynchronous communication between the mobile application and the backend, facilitating data exchange for menu display, order placement, and real-time updates.
* Implemented secure payment processing and integrated Razorpay API.

**PROFESSIONAL EXPERIENCE**

**Goldenmace IT Solutions -**Full Stack Developer Navsari, India *June 2023* – August 2023

* Led the development of a business dashboard using React.js, Node.js, and Angular.js, improving client satisfaction by 20%

through an intuitive user interface.

* Implemented TypeScript and Svelte for code optimization and caching mechanisms, boosting dashboard performance by

30%. Integrated PostgreSQL and MongoDB for data storage, ensuring fast and efficient data retrieval.

**HACKATHONS / EVENTS**

**INTECH 2023/The institute of Engineering and Technology** Jan 2023

**KJSIET Infinite Loop,** Member September 2023 – January 2024

**LANGUAGES**

English , Hindi , Gujarati